

# Manufacturers Record

## Exponent of America



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Baltimore, Md.  
DECEMBER 29, 1927

## Our New Year Wish to Our Readers.

Material prosperity is the basis on which the educational and religious advancement of the country must of necessity depend. Where there is no profit in business, no money is available for the maintenance of churches and schools and kindred institutions for the betterment of mankind. Therefore, in expressing the hope that the readers of the Manufacturers Record in all sections may find the coming year one of far greater prosperity than the year which is closing, we extend to these readers our heartiest good wishes for 1928. We trust that their prosperity may set a new mark in the history of this country, and that as material prosperity brings to the country larger opportunities for service we may all realize that "Unto whom much has been given, of him shall much be required." Our responsibilities will be increased by our opportunities for service.

We know full well that to many a business man, to many a farmer and clerk and laborer the year has been one of more hardships than of success. We would not minimize the reality of this, but we believe it is safe to look forward to a larger prosperity in the coming year than the country has had during the year that is passing. Forgetting the things which are behind, we would therefore press upon our readers to push forward with faith in the future, faith in themselves, and faith in that Providence which has guided this nation through so many difficulties.

To one and all who read this paper, whether they be friends or critics, whether they commend or denounce its policies, we extend our heartiest good wishes, and our hope for abounding prosperity wherever their prosperity is based on honorable and legitimate work, and for the health and happiness of themselves and their loved ones.

To the men and women who have borne the burden of the fight for the things which make for human advancement, to those who under many difficulties have labored for the good of their fellow-man and for the benefit of the country, we would extend our hearty congratulations on the backbone which has enabled them to make that fight, and our sincere hope that under the Providence of God they may be able to keep up their good work and carry it forward until this nation becomes noted world-wide not only for its vast material wealth, but for its high moral standard, its obedience to law and order, and for such national friendly treatment of nations, weak or strong, as under similar circumstances we would want as a nation to be treated.

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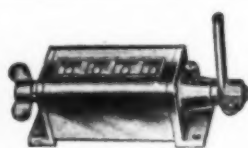
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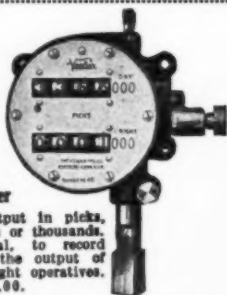
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## Forward March!

**B**BROADLY covering the whole field of business activity, there are many signs which indicate better conditions in 1928 than during 1927. Indeed, the time is about here when in the natural order of events there should be a return of great nation-wide prosperity.

Throughout the entire land it is now recognized that in the South there is an empire great enough in extent and in natural resources to tax the constructive genius of the country and all the capital that may be available for utilizing these resources. No longer is there that spirit of jealousy which once existed against the South, for today it is broadly appreciated that whatever makes for the welfare of one part of America inures to the benefit of all.

Here is a part of our great domain—one-third of the land area of continental United States—which might be called almost a virgin field, measuring its future and its resources by the development that has already taken place. But it is not alone throughout the South that there is to be widespread constructive development work. We are entering upon a period of empire upbuilding, a period in which all the advantages of this country for domestic and foreign trade are to be made the most of. The pioneering work which has brought us thus far on the journey of material advancement has simply opened the way to a far greater national progress than we have ever known in the past.

While it is true that in the South will be centered perhaps the greatest industrial activity in the way of new work that the world has ever seen, other parts of the country are also destined to share in this revival of business throughout the land. New England is catching its second wind. In no way discouraged by the temporary halting in some of its industries and the movement Southward of others, New England with its accumulated capital of money, brains and skill is preparing to utilize its advantages, and where one factory may be discontinued or moved there will be planted others and still greater ones—perhaps, however, of a different character. That section does not know defeat, but, on the contrary, it sounds the forward march and not the retreat.

Throughout much of the West and on the Pacific Coast

great enterprises are under way, much building is being done, more improvement in farming is in evidence, and the whole situation is decidedly encouraging.

In this great and glorious country, crowned with blessings more infinite in extent and variety than were ever given to any other people in the world's history, with nearly 120,000,000 people, largely homogeneous in thought and activity, gradually assimilating even the aliens of a different stock, unvexed by the arbitrary rules and regulations of differing nationalities as in Europe, we have every advantage for the employment of people and the creation of wealth that could possibly be asked. In this respect no other country on earth begins to touch us. Here are still limitless resources awaiting development. Here is a field vast enough in the South alone for the utilization of all the money we have been pouring into Europe. Here is a field so great, so available for profitable utilization of its resources in domestic and foreign commerce that it is not to be wondered at that the whole world stands not only amazed, but we may truthfully say almost staggered at the extent of our resources and our geographical situation.

With Europe on one side and the Orient on the other, and with an accumulation of wealth of money, of skill and of energy sufficient to carry us forward to heights of prosperity and to the consecration of this wealth to the good of mankind such as the wildest dreamer of the past never dared to expect to see, and such as no other nation on earth can hope to achieve to the same extent—this is the opportunity given to us.

### REASONS FOR REDUCING INCOME TAXATION.

**S**TRONGLY commending the position taken by the MANUFACTURERS RECORD in favor of a heavy reduction of income taxation and a more gradual payment of our war indebtedness, the Times-Union of Jacksonville in an extended discussion of the subject makes the following interesting statements, well worthy of consideration:

"Overtaxing the people in order to create surpluses with which to reduce the war debt at a much greater rate than was deemed necessary or advisable by the experts who studied the matter out some few years ago is not going to be popular very long. It is all very well to argue that unexpected revenues have increased the surplus reports until

they reached above half a billion the last fiscal year. But there is neither necessity or demand for continuing to pull down the debt a billion dollars a year or more. The people of the country, and especially the business interests, need capital for extension and for various reasons. The taxes now levied, especially those against corporation incomes and profits are much too high; the tax on estates is wrong in principle and should be repealed. There are other taxes that need attention and reduction or abatement. The country is remarked as on the crest of a wave of prosperity, but it is recalled by the Record that at the annual meeting of the National Association of Manufacturers in Chattanooga, in October, it was stated that 'never in the history of manufacturing had the profits on business been so small.'

"Tax reduction will help business of every kind and it should be made with a chance to have the reduction affect the taxes of 1927. Executive and department depreciation of advice from the chamber of commerce is most improperly given, and should not receive great attention by members of Congress who at least realize the disinterested and non-partisan nature of the inquiry instituted by the national business body, regarding the situation and possibilities."

### TWENTY-FIVE YEARS' GROWTH OF THE AMERICAN CHEMICAL INDUSTRY.

**A**N increase of approximately 500 per cent in the value of products of the American chemical industry during the last 25 years is analyzed in an article written by A. H. Swift of the Chemical Division of the United States Department of Commerce, and published recently in Commerce Reports. "Medicines, toilet preparations, paints and varnishes, fertilizers, dyes, essential oils, dynamite, gunpowder, matches, insecticides, disinfectants, and all the numerous industrial chemicals inclusive of washing and baking sodas," is the list that goes to make up the 1927 production of \$2,278,000,000.

This increase in production, says Mr. Swift, in analyzing its causes, has run far ahead of increase in population, so that this can account for only a small part of it. The substitution of new, synthetic products for some of the uses of age-old stand-bys can account for only a moderate proportion of the increase. The chief cause, he believes, is the ability of the world market to consume enormous quantities of entirely new commodities, including many luxuries. He believes that "no other industry probably has done so much to raise the standard of living as the chemical industry and consequently no other industry is developing to the same degree."

While our production was increasing from approximately \$375,000,000 to \$2,278,000,000, our exports increased from about \$31,800,000 to \$171,000,000. An interesting observation on the elasticity of the industry is afforded by the fact that during the war the exports ran up to a peak in 1917 of nearly \$1,000,000,000, whence they tumbled dizzily in 1921 to less than the present figure. While the export figure skyrocketed and collapsed during 1915-1919, production increased at a tremendous rate throughout that period, sagged sharply to a low figure in 1921, and has since recovered to a value about equal to that of 1919. The large production that ceased to go abroad has, therefore, found markets in this country, although the proportions of the commodities making up the total has changed since the close of hostilities in 1918.

The significant fact about our exports is that they are being gradually outstripped by our imports. While in 1926 we shipped out \$171,000,000 worth, we brought in \$203,000,000. Of this figure about 40 per cent, or \$72,000,000, was fertilizer or fertilizer materials. This, states the report, represents an increase of over 1000 per cent since 1899. Germany, as in the past, continues to supply us with potash, while our imports of nitrates instead of coming altogether from Chile, as in the past, come now partly from the nitrogen-fixation plants of Germany.

### ARMY ENGINEERS' PLAN SHOWS THAT RESERVOIRS COULD HAVE PREVENTED 1927 FLOOD.

**A**CCORDING to the report submitted by General Jadwin to Congress on methods for controlling Mississippi floods, a system of 11 reservoirs costing \$240,000,000 and having a capacity of 37,000,000 acre-feet would have reduced the 1927 flood stage about 8 feet at Arkansas City and about 5.4 feet at the mouth of the Red River. The report states further that a larger group of reservoirs, costing \$525,000,000 "after credit for local benefits, would produce a dependable reduction in stages on the river of about 3 feet at Cairo, 10 feet at Arkansas City and 7 feet at Vicksburg." While the former group would not have prevented all flood damage in 1927, this group probably would have done so, though the estimated cost is not only greater than the flood cost in dollars, but much larger than the estimated cost of the plan proposed by the engineers. Furthermore, these 30 reservoirs are not headwater reservoirs, would not protect any great lengths of the tributary valleys, and are, therefore, discarded as too costly by comparison with the project proposed. In view of the flat assertions made in the past by some of the Army engineers that sufficient reservoir space could never be found to prevent the Mississippi floods, the aforementioned estimates by the Army engineers are interesting, even though their cost may, as the engineers believe, bar them from any practical bearing on the problem in the alluvial valley.

It was to the protection of this alluvial valley that the Engineer Corps has so far had to limit its effort. "Our problem at this time has been to study reservoir possibilities in so far as their effect on Mississippi floods may be," said General Jadwin in explaining the plan he submitted to Congress, thus at one stroke defining the limits set by time and resources of available data upon the present project, and revealing his conception of a comprehensive plan of flood control that must, eventually, protect the valleys of the tributaries as well as the valley of the Mississippi. And he added:

*"While the plans recommended to Congress at this time for the control of floods in the alluvial valley cannot include plans for the tributaries, studies of these tributaries will be made and plans and estimates for the best development of their entire water resources will be submitted to Congress as soon as practicable. It is evident that many reservoirs which would be of little help to the Mississippi will be of great help in solving the flood problems of the tributaries."* (Italics ours.)

Compare the following:

"Plans for preventing damage along the course of the Mississippi River below Cairo by levees and spillways, even should they be successful, would be far from complete, because hundreds of millions in damage are done by these flood waters on the tributaries of their origin, frequently several hundreds of miles from the Mississippi River, and no flood-control program will be complete that ignores this fact. \* \* \*

"The protection of the tributaries in this fashion will have considerable — though at present an ungauged — value in reducing the floods to be handled along the course of the Mississippi from Cairo to the Gulf of Mexico."

These two are the first and the last paragraphs of an article on flood control written by Richard Woods Edmonds and published in the MANUFACTURERS RECORD for August 4. While the Army engineers found it impossible to prepare plans for protection of all the tributaries at this time, it appears that they are in substantial agreement with the position of the MANUFACTURERS RECORD, and dwellers on the tributaries may feel that relief for them, though distant and moving slowly, is nevertheless on the way.



## AMERICANS FINANCING FOREIGN CHEMICAL COMBINATIONS.

**A**N Associated Press dispatch from Frankfort-on-the-Main states that the directors of the German Dye Trust have decided to recommend the issuance of debentures to the value of 250,000,000 marks, or approximately \$53,000,000. It is expected that the money will be raised largely in this country.

Few, indeed, are the days that do not bring into this office some word of the straining efforts being made by German, French and British chemical industries to combat our exports—efforts that are dominated by the German chemical trust, and which will, if they are successful, shut us out of foreign markets and invade more aggressively than at present our domestic market. Here, for example, is a recent Washington dispatch to the New York Times, the first paragraph of which recites that "Great Britain has united with France and Germany in an effort to control the world's chemical markets, according to official advices received by the Department of Commerce and made public here today."

Along with this belongs the December "Industrial Bulletin," published by Arthur D. Little, Inc., which quotes a booklet published by a German banking house in description of the ramifications of the I. G., as the German chemical trust is called. "One hundred companies are listed as being merged or affiliated with the I. G. Thirteen of these are designated as founders or chief members. Among the 87 others are included fertilizer and agricultural chemical companies; chemical, electrochemical and metallurgical works; makers of mineral colors; coal, lignite and oil companies; makers of celluloid, artificial silk and explosives; handlers of compressed gases, and 11 unclassified firms."

Since the war these ramifications have been rapidly extended into other countries. The object of these combinations and trade agreements is, among other things, the allocation of production and markets in a fashion diametrically opposed to American practice as developed under the Sherman Law.

American investors, drawing their savings from the prosperity of American industry, finance these foreign efforts at strangulation of our export trade by their ready purchase of German bonds. Of the 250,000,000-mark issue shortly to be floated, there is no doubt that a large proportion will be taken in this country. The money so invested will be used in a powerful effort to shut off the very source from which it was drawn, the savings we Americans are able to accumulate from the prosperity of our industries. Let any American who doubts this fact consider the words of the German Minister of Finance, who in October of this year stressed the necessity for secrecy for the recent communication of Mr. Gilbert, agent of the Dawes Commission, because it "contains detailed information on a number of German loans from America which are not being used as the American public believes and which would cause dissatisfaction and financial difficulties."

## A GUIDE TO PROSPERITY.

**P**ROF. CLYDE L. KING of the Wharton School of Finance and Commerce, University of Pennsylvania, in referring to the Blue Book of Southern Progress as a splendid publication makes a very interesting suggestion in regard to the influence which such a work has upon helping to shape the destiny of this country. He writes:

"Industrial stability comes through incessant adaptation of industries to change in consumption and in production alike. Such informational service as yours helps to make that change at once better informed and more abiding, and hence

it is a fundamental factor in prosperity. There is no doubt a great future before the South just as there is a great future before the Middle West, and that future can be hastened only by the intelligent guides just as you have given in your Blue Book."

## COMMON SENSE, NOT GENEROSITY, NEEDED FOR FLOOD CONTROL.

**P**RESIDENT COOLIDGE is quoted as having said that the plan for the Mississippi Valley States to pay 20 per cent of the cost of flood protection is the most extraordinarily generous one ever made by the Federal Government for a system of flood control. If generosity is what the ravaged States want, then let them stand with hats in hand and receive with grateful hearts what the other States are willing to give. There can be no argument as to amount. If generosity is involved, then every dollar the Government has put into this work in all the years it has had control of it has been a contribution to charity. If generosity is involved, then the President, when he said last spring that the flood was a national calamity and a prevention of its recurrence a national problem, was speaking not from a clear, level-headed comprehension of the situation, but from a heart overflowing with a warmth of generous, compassionate sympathy.

The Mississippi Valley States do not want generosity. They want a reasonable, sound, common-sense plan, and such a plan can be founded only upon a clear, cool understanding of the situation.

It is not sound, reasonable or sensible to endeavor to determine a just share of the burden to saddle, by special assessment, upon the alluvial valley. The intricacies of the other property interests—the farm mortgages, the highway bonds, the securities representing ownership of the railway, telephone, telegraph, power and manufacturing companies of the great river's flood plain, held by the investors of every State in the Union, render that impossible. Furthermore, the very existence of these interests renders a special assessment of any magnitude, however small, a most unjust discrimination.

Mr. Coolidge is represented as indifferent to the exact proportion of cost to be levied on the flood plain, beyond the sentiment that it should be small enough for that section to bear without undue suffering and hardship. The sentiment is commendable, but his reason, as given in the New York Times, for thinking the ravaged States should bear this small burden is not as well thought out as are most of his utterances. "He holds," says the New York Times, "that if the communities have an interest in flood control plans they will see that the work is well done and there is no waste."

Without pausing to stress the degree of interest likely to be felt by the dwellers behind the levees in seeing the work well done, let us inquire who is to do this job. Is it not to be done by, or under the supervision of, the Engineer Corps of the United States Army? Such is our understanding. That being the case, the Army engineers will be charged with full responsibility for the work. We have sometimes thought the Army engineers lacking in vision and initiative, and have said so. We have seen much more severe criticisms of them than any we have ever made. But we have never questioned their ability to take hold of a designated job and carry it through in a creditable manner. We believe the surest possible way to involve the work in hopeless confusion, delay and incompetence will be to give the interested sections voices in its direction. We are satisfied the work should be done under one supreme command. We believe that Mr. Coolidge completely overlooked the inescapable inference contained in his words. If this is the reason on which his policy is based, it must of necessity be unsound.

## More Than Half of Country's \$635,000,000 Increase in Crop Values From the South's Cotton.

VIEWED from the standpoint of agriculture, the prospects for 1928 are much better than they were at this time last year. It is true that farm conditions are far from satisfactory, but taken as a whole the country has reason to be more optimistic. Higher prices, coupled with larger yields in a few crops, increased the buying power of the American farmer this year by more than \$635,000,000. The South, particularly, is in a favored position, since its cotton crop alone will bring to this section more than \$1,425,000,000, or an increase of \$320,000,000 over 1926, which is more than half of the country's total increase in values, based on the Department of Agriculture's December 1 estimates.

According to the December reports, the aggregate value of 19 selected crops produced in the South in 1927 is \$3,039,504,000, as compared with \$2,804,121,000 for similar crops in 1926, or a gain of \$235,383,000 over the 1926 values, and including increase of cottonseed value the gain is over \$290,000,000.

### PRODUCTION AND VALUE, BASED ON DECEMBER ESTIMATES, OF NINETEEN SELECTED SOUTHERN CROPS.

Crop	1926		1927	
	Production	Value	Production	Value
Cotton, bales* ..	17,633,000	\$960,017,000	12,525,000	\$1,224,226,000
Tobacco, lbs. ....	1,130,517,000	208,318,000	1,092,407,000	235,944,000
Corn, bu. ....	896,471,000	641,502,000	887,091,000	707,336,000
Wheat, bu. ....	175,586,000	217,047,000	100,833,000	126,633,000
Oats, bu. ....	228,058,000	103,291,000	142,052,000	76,930,000
Buckwheat, bu. ....	1,629,000	1,586,000	1,765,000	1,678,000
Barley, bu. ....	11,874,000	7,528,000	6,637,000	5,142,000
Rye, bu. ....	4,720,000	5,481,000	3,277,000	4,152,000
Rice, bu. ....	33,744,000	35,259,000	31,271,000	28,167,000
Grain sorghums, bu.	107,565,000	56,131,000	93,326,000	55,701,000
Hay, tons. ....	15,871,000	246,627,000	19,617,000	254,948,000
White potatoes, bu. ....	59,401,000	100,408,000	74,185,000	103,767,000
Sweet potatoes, bu. ....	74,588,000	69,171,000	87,525,000	70,095,000
Peanuts, lbs. ....	631,825,000	28,161,000	866,822,000	35,193,000
Oranges, boxes ...	10,870,000	28,415,000	10,230,000	34,500,000
Grapefruit, boxes ...	8,140,000	17,060,000	6,790,000	17,920,000
Apples, bu. ....	65,807,000	48,195,000	21,833,000	33,960,000
Peaches, bu. ....	27,225,000	26,381,000	14,132,000	20,913,000
Pears, bu. ....	3,761,000	3,543,000	1,878,000	2,299,000
Total 19 crops ..		\$2,804,121,000		\$3,039,504,000

\*Excluding value of country's cottonseed, amounting to \$149,121,000 in 1926 and \$208,972,000 in 1927, practically all produced in the South.

For the country as a whole the aggregate value of about 50 farm crops in 1927 is estimated by the Department of Agriculture at \$8,428,626,000, compared with \$7,793,480,000 for the same crops in 1926, making a gain of \$635,146,000, according to the December estimates by the Crop Reporting Board.

The prices are all based on December 1 averages, except for some crops sold earlier in the season, and the Department of Agriculture points out that with the major crops, which are rather generally sold over wide areas and during a considerable portion of the year, the December 1 price is reasonably comparable as between years. With the more specialized crops, which are sold from rather limited areas and during a short season, the December 1 prices are not very logical. An effort is being made to substitute for these special crops the season average price when the sales occur prior to December 1. With some of the special crops, an effort is made to revise the previous year's price on the basis of the general average for the season, even with those crops which may not be completely sold by December 1. Florida potatoes, for example,

are practically all raised and sold in months prior to December 1 and it would be quite illogical to use a December price in determining the value of Florida potatoes. A season average price is being used with such special crops as peaches,

### PRODUCTION AND VALUE PRINCIPAL FARM CROPS OF UNITED STATES, ESTIMATED BY DEPARTMENT OF AGRICULTURE AS OF DECEMBER 1.

Crop	1926		1927	
	Production	Value	Production	Value
Corn, bu. ....	2,692,217,000	\$1,729,457,000	2,786,288,000	\$2,014,725,000
Wheat, bu. ....	831,040,000	995,954,000	871,691,000	974,694,000
Oats, bu. ....	1,246,848,000	496,582,000	1,195,006,000	537,276,000
Barley, bu. ....	184,905,000	106,237,000	265,577,000	180,127,000
Rye, bu. ....	40,795,000	34,024,000	58,572,000	49,945,000
Buckwheat, bu. ....	12,676,000	11,183,000	16,182,000	13,518,000
Flaxseed, bu. ....	19,335,000	37,510,000	26,583,000	49,373,000
Rice, bu. ....	41,730,000	45,722,000	40,231,000	37,728,000
Grain sorghums, bu.	137,515,000	74,065,000	137,608,000	84,802,000
Cotton, bales	17,977,000	982,736,000	12,789,000	1,253,599,000
Cottonseed, tons ....	7,982,000	149,121,000	5,678,000	208,972,000
Hay, tons. ....	96,065,000	1,314,478,000	123,512,000	1,320,524,000
Cloverseed, bu. ....	728,000	12,895,000	1,738,000	26,499,000
Dry beans, bu. ....	17,396,000	51,005,000	16,872,000	48,732,000
Soy beans, bu. ....	6,094,000	12,105,000	8,163,000	13,822,000
Peanuts, lbs. ....	631,825,000	28,161,000	866,822,000	35,193,000
Cowpeas, bu. ....	4,335,000	9,218,000	5,834,000	10,007,000
Potatoes, white, bu.	354,328,000	501,017,000	402,149,000	387,870,000
Sweet potatoes, bu. ....	82,703,000	78,956,000	93,928,000	77,520,000
Tobacco, lbs. ....	1,297,889,000	236,522,000	1,237,832,000	266,356,000
Sugar beets, tons ....	7,223,000	54,964,000	7,737,000	60,198,000
Sugar cane, except for syrup, tons	1,105,000	5,437,000	1,428,000	6,583,000
Cane syrup, gals. ....	22,172,000	17,888,000	21,425,000	17,520,000
Sorghum syrup, gals. ....	34,547,000	29,087,000	31,876,000	27,298,000
Broomcorn, tons ....	53,400	4,202,000	35,679	3,899,000
Apples, bu. ....	246,524,000	178,233,000	123,455,000	171,078,000
Peaches, bu. ....	69,865,000	68,426,000	45,463,000	50,494,000
Pears, bu. ....	25,249,000	22,399,000	18,072,000	23,902,000
Grapes, tons	2,423,413	64,603,000	2,464,712	67,677,000
Oranges, boxes ...	38,867,000	114,293,000	32,540,000	100,620,000
Grapefruit, boxes ...	7,800,000	16,380,000	6,300,000	16,695,000
Lemons, boxes ...	7,712,000	21,671,000	6,400,000	17,600,000
Cranberries, bbls. ....	743,600	5,623,000	496,000	6,088,000

### Commercial Truck Crops

Asparagus, crates ..	7,813,000	14,188,000	7,874,000	12,539,000
Snap beans, tons ....	109,600	14,131,000	122,300	14,490,000
Cabbage, tons ....	1,034,200	18,398,000	1,162,600	18,382,000
Cantaloupes, crates ..	14,393,000	18,520,000	15,272,000	18,611,000
Carrots, bu. ....	5,523,000	3,145,000	8,002,000	3,688,000
Cauliflower, crates ..	5,538,000	4,120,000	4,299,000	4,596,000
Celery, crates ..	6,476,000	12,394,000	7,407,000	10,584,000
Sweet corn, tons ....	816,000	10,800,000	395,800	4,800,000
Cucumbers, bu. ....	8,855,000	10,360,000	8,366,000	9,507,000
Eggplant, bu. ....	791,000	931,000	746,000	692,000
Lettuce, crates ..	17,150,000	28,109,000	17,652,000	18,004,000
Onions, bu. ....	20,945,000	15,803,000	22,576,000	17,547,000
Green peas, tons ....	261,100	19,152,000	236,800	18,020,000
Peppers, bu. ....	3,890,000	4,937,000	3,502,000	3,529,000
Spinach, tons ....	124,400	7,493,000	141,000	7,982,000
Strawberries, qts. ....	277,940,000	47,791,000	342,284,000	49,885,000
Tomatoes, tons ....	1,375,800	42,898,000	1,621,500	44,155,000
Watermelons ..	69,698,000	10,156,000	57,220,000	10,661,000
Total value .....		\$7,793,480,000		\$8,428,626,000



PRODUCTION AND VALUE OF COTTON LINT, BY STATES IN THE SOUTH, BASED ON DECEMBER 1 ESTIMATES.

States	1926		1927	
	Production bales	Value	Production bales	Value
Alabama...	1,498,000	\$80,143,000	1,200,000	\$114,000,000
Arkansas...	1,548,000	85,140,000	980,000	98,980,000
Florida....	32,000	1,632,000	17,000	1,623,500
Georgia....	1,496,000	83,028,000	1,100,000	106,700,000
Louisiana...	829,000	45,595,000	545,000	52,320,000
Mississippi...	1,888,000	109,504,000	1,340,000	137,350,000
Missouri...	218,000	10,900,000	104,000	10,660,000
N. Carolina...	1,213,000	69,747,500	857,000	83,557,500
Oklahoma...	1,773,000	85,990,500	990,000	98,010,000
S. Carolina...	1,008,000	58,968,000	735,000	72,030,000
Tennessee...	451,000	22,550,000	345,000	32,775,000
Texas.....	5,628,000	303,912,000	4,280,000	413,020,000
Virginia....	51,000	2,907,000	32,000	3,200,000
Total...	17,633,000	\$960,017,000	12,525,000	\$1,224,226,000
U. S.*....	17,977,000	\$982,736,000	12,789,000	\$1,253,599,000

\*To the value of lint should be added a production of 7,982,000 tons of cottonseed, valued at \$149,121,000 in 1926, and 5,678,000 tons, valued at \$208,972,000 in 1927, practically all produced in the South.

PRODUCTION AND VALUE OF TOBACCO, BY STATES IN THE SOUTH, BASED ON DECEMBER 1 ESTIMATES.

States	1926		1927	
	Production, pounds	Value	Production, pounds	Value
Florida....	5,808,000	\$2,015,376	8,228,000	\$2,879,800
Georgia....	39,963,000	9,591,120	59,088,000	11,463,072
Kentucky...	358,568,000	38,008,208	242,820,000	40,065,300
Louisiana...	400,000	180,000	400,000	180,000
Maryland...	26,040,000	6,171,480	26,176,000	4,973,440
Missouri...	4,750,000	712,500	4,400,000	968,000
N. Carolina...	386,460,000	102,025,440	468,000,000	120,744,000
S. Carolina...	56,780,000	13,229,740	75,920,000	15,563,600
Tennessee...	106,216,000	11,152,680	71,435,000	12,858,300
Virginia...	137,032,000	24,117,632	129,940,000	25,078,420
W. Virginia...	8,500,000	1,113,500	6,000,000	1,170,000
Total...	1,130,517,000	\$208,317,676	1,092,407,000	\$235,943,932
U. S. ....	1,297,889,000	\$236,522,000	1,237,832,000	\$266,356,000

PRODUCTION AND VALUE OF CORN, BY STATES IN THE SOUTH, BASED ON DECEMBER 1 ESTIMATES.

States	1926		1927	
	Production, bushels	Value	Production, bushels	Value
Alabama...	45,765,000	\$34,781,400	47,456,000	\$43,659,520
Arkansas...	41,533,000	33,226,400	36,575,000	31,820,250
Florida...	7,714,000	7,096,880	7,449,000	7,225,530
Georgia...	55,348,000	42,062,960	54,502,000	44,146,620
Kentucky...	101,277,000	66,830,050	75,010,000	66,008,800
Louisiana...	19,722,000	17,749,800	20,318,000	18,286,200
Maryland...	22,049,000	14,111,360	22,660,000	18,128,000
Mississippi...	36,826,000	30,197,320	34,140,000	31,750,200
Missouri...	176,011,000	119,687,480	172,637,000	129,476,750
N. Carolina...	52,272,000	45,999,360	53,626,000	48,799,660
Oklahoma...	61,178,000	34,839,680	84,190,000	49,672,100
S. Carolina...	22,103,000	19,892,700	25,449,000	22,904,100
Tennessee...	85,222,000	56,246,520	70,656,000	58,644,480
Texas.....	106,863,000	64,117,800	119,347,000	77,575,550
Virginia...	46,585,000	39,597,250	47,967,000	44,129,640
W. Virginia...	16,005,000	15,044,700	15,109,000	15,109,000
Total...	896,471,000	\$641,501,660	887,091,000	\$707,336,400
U. S. ....	2,692,217,000	\$1,729,457,000	2,786,288,000	\$2,014,725,000

pears, grapes, tobacco and potatoes for some of the early producing States.

The largest increase in values was corn, \$285,268,000; cotton and cottonseed, \$330,714,000; barley, \$73,890,000, and oats, \$40,694,000. The only really large decrease in value was \$113,147,000 in potatoes, although wheat, hay, apples, peaches and some other crops show declines ranging from \$10,000,000 to \$30,000,000.

The area of principal crops increased from 355,657,000 acres last year to 355,826,000 acres in 1927. Crop yields averaged 2.1 per cent lower than those of last year, but are 2.5 per cent above the average yields of the last 10 years.

The per capita production of the crops covered by the December report is 3.4 per cent less than last year and 4.8 per cent less than the average per capita production during the last 10 years.

The 1927 corn crop of the United States is estimated at 2,786,000,000 bushels, which is 94,061,000 bushels in excess of the 1926 output, and the value of the larger crop of this year, on the basis of the higher December 1 prices, was 17 per cent greater than the 1926 crop. More than 887,000,000 bushels of corn, 32 per cent of the country's corn crop, was raised in the South in 1927 and the South's corn crop is valued at

\$707,536,000. This is a decrease in production of 9,300,000 bushels, but an increase in value of \$66,034,000. Other grain crops in 1927, compared with 1926, show a decline, especially wheat, oats and grain sorghums.

The value of the country's cotton lint and cottonseed, on the basis of December 1 farm prices, increased about \$331,000,000, or 29 per cent, from \$1,132,000,000 in 1926 to \$1,463,000,000 in 1927. In this connection, the department points out that the December 1, 1926, prices were below the seasonal average price for the year's crop. Therefore, the value of the cotton crop (lint and seed) based upon the 1926 seasonal prices was about \$1,300,000,000, and likewise the December 1, 1927, prices were also below the seasonal average prices to that date. With the Southern States producing a much smaller cotton crop in 1927, following the abnormally large yield of 1926, the value of the lint alone this year is more than \$1,224,000,000, or \$264,209,000 in excess of the 1926 cotton lint value.

Tobacco production in 1927 of the United States is estimated at 1,237,832,000 pounds, a reduction of about 60,000,000 pounds from last year. The total value of the crop is estimated at \$266,356,000, or an approximate increase of \$30,000,000 over 1926. The South's tobacco crop, like its cotton, shows a decline in production in 1927, but for this smaller yield the aggregate value as of December 1 in the South was \$235,944,000, or a gain of more than \$27,000,000 over 1926.

Peanuts, potatoes and hay in the South showed marked gains in both production and value. Because of weather conditions, the fruit crops of the South in 1927 were smaller than usual but most of the crops brought greater prices.

Altogether, the agricultural situation throughout the country is in a much better position than in 1926, when large crops and low prices prevailed, the South particularly benefiting in these increased values as compared with 1926.

### DALLAS ADOPTS A REMARKABLE DEVELOPMENT PROGRAM.

NO more practical step for constructive development has been taken by any community in the country in years than recent approval by the citizens of Dallas, Texas, of bond issues aggregating nearly \$25,000,000 for the expansion of their home city on a dozen lines. Although all municipal work must, of necessity, be chiefly along physical improvement, the nature of the program prepared for Dallas emphasizes in almost unprecedented measure great development in commercial, educational, recreational and even spiritual phases, also.

Summarized from the detailed story told in the MANUFACTURERS RECORD, December 1, this step involves the expenditure of \$23,900,000 for public schools and streets, for parks and sewers, for hospitals and a water system, for a municipal auditorium and libraries and an institute of fine arts, and other things. And under the so-called Ulrickson plan these expenditures will be spread over a period of nine years with such keen business acumen that the burden on the taxpayers will be slight. With the tax rate continued at 2.47, the basis of assessment is to be raised, as thus explained by Clyde V. Wallis, manager of industrial department of the Dallas Chamber of Commerce:

"The actual increase in assessments will be very slight. For example, the present basis of assessment for taxation purposes on property located within the city limits of Dallas is approximately 50 per cent of its value. Under the Ulrickson plan it is not proposed to increase the tax rates, but rather to raise the basis of assessment. For instance, in 1928-29 the basis of assessment will be 53 per cent of the actual value of property within the city limits, rather than the present 50 per cent. Under the Ulrickson plan the maximum increase will be 8.6 per cent in 1925-36; in other words,

the basis of assessment in those years will be 58.6 per cent, instead of the present 50 per cent of the actual value of the property."

The scheme is remarkable in its combination of ingenuity and practicability.

Announcement of this action by the people of Dallas was made to the MANUFACTURERS RECORD in a telegram from the Dallas Chamber of Commerce under date of December 16:

"Anticipating an era of industrial and commercial growth unprecedented in its history, Dallas yesterday voted by large majorities all bond proposals and charter amendments in Ulrickson plan, details of which are on file in your office."

By its action Dallas is going much further than merely "anticipating an era of industrial and commercial growth"—it is taking positive, intelligent and far-reaching steps to stimulate and accelerate that growth. The example of Dallas may be regarded not only as a stimulant to other cities and even to States, but also as a manifestation of the spirit of constructive progress which now pervades the entire South.

### THE RELOCATION OF AMERICAN INDUSTRIES IS A REMARKABLE PHASE OF OUR BUSINESS LIFE.

EVERY issue of the MANUFACTURERS RECORD is crammed full and brimming over with facts regarding the remarkable industrial development under way throughout the South and Southwest, and the relocation in the South of industries that are moving from the North into that section.

This movement is full of romance and like a great epic is telling a story from day to day which is gradually swelling in its influence upon the entire country. The nation is awakening as it never did before to this entirely new movement of industry.

In the early days, when the West was undergoing its great development, comparatively few Eastern enterprises were bodily moved to the West. The development there was based on the establishment of new industries to meet the situation, but today there is a nation-wide realization of the fact that a complete relocation of industries of many kinds is under way. New plants are being established throughout the South, involving investments of hundreds of millions of dollars. At the same time many established mills of the North are being moved to the South. This is true not only as to cotton mills, but likewise true as to other industries. In addition to this feature of industrial life of the nation, there is a rapid establishment in the South of branch factories and enterprises by long established and prosperous concerns of other sections.

This forward movement of the South in the establishment of new industries and the relocation in the South of Northern industries, is a movement of such far reaching national importance that it means a complete change of conditions throughout the South and the making of this section the real industrial center of America. Broad as that statement is, time will demonstrate its correctness. It is interesting in this connection to note that the great milk and cheese making concerns of the country are likewise turning their attention to the South to such an extent as to insure that this section will become the dairying and cheese making center of America.

The future of this section is so pregnant with tremendous possibilities; indeed, with tremendous certainties, that the business men of the entire nation may well give heed to this movement and to the vast increase in the buying power of the South, which will come out of this industrial activity added to the increasing prosperity of diversified farming throughout this section.

### A KENTUCKY LAWYER ASKS CONGRESSMAN GARNER SOME STRONG QUESTIONS.

IN a letter to Hon. John N. Garner of the House of Representatives, Harvey Myers of Covington, Ky., puts up to Mr. Garner an argument against the present Federal inheritance tax which we think it will be rather hard for Mr. Garner, as a Democrat, to answer. In his letter, Mr. Myers writes:

"Will you, the ranking member of the minority party, permit a private in the rear ranks of Democracy, a bearer of party burdens, to ask of one of the recognized party leaders—a Representative from that citadel of Democracy, Texas—just what brand of Jeffersonian Democracy you are promulgating that would set up in an already highly centralized Government at Washington a deliberate plan to coerce the individual States into agreement with its notion of propriety of taxation by the States—a dangerous invasion of the States' retained powers, you must admit, and another step toward the Republican principle of centralization of power. I refer to your announcement that the Federal death tax, as now provided by law, is a Democratic measure.

"I am not going to argue with you that the infliction of any death tax is un-American and horrible to contemplate. After a citizen has worked hard, and saved and saved, and paid and paid taxes—ad valorem, license, excise, tariff, gasoline and last, but not least, Federal income—and has succeeded in spite of all these in laying up a little nest egg for the support of his good widow in her declining years and to finish the education of his fatherless children that they may become good citizens, I say that for one's Government to send its tax gatherer in one door as the hearse leaves the other, to grab from the widow's mite and the children's support a substantial part of the estate of the deceased—principal, at that, and not income—is a performance justified only by the exigencies of war and savoring rather strongly of monarchical confiscation.

"It must be admitted that the present Federal death tax lacks every essential of an honest-to-God revenue measure—that the law as it stands is a mere smoke screen to disguise the true purpose behind it—to wit, an attempt of the Federal Government to compel all States, regardless of the wishes of their citizens, to enact a death tax. Considering the enormous expense of supervision, bookkeeping, audit, collection and disbursement, and in view of the fact that 80 per cent of the Federal death levy is returned to those States which impose a state inheritance tax, it is evident that this abortive law yields no substantial Federal revenue. What right has the Federal Government thus to interfere in the economic affairs of the States? And what sort of Democracy is it that could appeal to a liberty-loving Democrat to espouse such a breach of States' Rights fundamentals?

"I hope to live to see the day when both the Federal Government and that of my own State will abolish this most undesirable measure, but all efforts at State reform in this direction are now suspended because of the coercive Federal interference.

"All of us, as you know, Mr. Garner, make mistakes; but, only the men who are both big and fair are willing to own to and retrieve their errors. It is the earnest desire and belief of the undersigned, one of your fellow Democrats and personal admirers, that you will accord to this petition for a rehearing at least the courteous and open-minded consideration to which one Democrat is entitled from another."

### INDUSTRIAL OPPORTUNITIES IN THE SOUTHWEST.

J. G. CARLISLE, director of industrial department, Missouri Pacific Railroad Company, in a letter to the MANUFACTURERS RECORD writes:

"The field for industrial growth in the Southwest and West, served by the Missouri Pacific Lines, is almost virgin and with the co-operation of the various agencies interested in its development, not the least of which is your great journal, I hope to be of some service in upbuilding these sections."



# Lee the Educator and His Institution.

By HENRY LOUIS SMITH, President, Washington and Lee University.

Washington and Lee University was founded in 1749 as Augusta Academy, a Southern companion of Yale, Harvard and Princeton. Like them, it was independent of church and state limitations, ownership and financial support, but was owned and controlled by a self-perpetuating board of trustees and financed entirely by the private liberality of public-spirited citizens. It was the first concrete expression of that devotion to learning and religion which characterized the settlers of the Valley of Virginia, and the fifth in order of founding of our American colleges.

In the spring of 1776, two months before the Declaration of Independence, by unanimous action of the board of trustees, its name was changed to Liberty Hall. In 1782, it was formally incorporated as an independent institution, free of ecclesiastical and political limitations. In 1798, it was chosen by George Washington, endowed by him with a gift of stock valued at \$50,000, and formally authorized to bear his name as Washington College. The following eloquent tribute to Washington College as a mold and maker of men was paid in 1883 by one of Virginia's most illustrious statesmen, Senator John W. Daniel, himself an alumnus of another institution:

"All ranks of honorable enterprise and ambition 'in this rising empire' felt the impress of the noble spirits who came forth from its halls, trained and equipped for life's arduous task with keenest weapons and brightest armor. What glowing names are these that shine on the rolls of the alumni of this honored Alma Mater! Church and state, field and forum, bar and bench, hospital and counting room, lecture room and pulpit—what famous champions and teachers of the right, what trusty workers and leaders in literature and law, and arts and arms, have they not found in her sons! Seven Governors of States—among them Crittenden of Kentucky and McDowell, Letcher and Kemper of Virginia; eleven United States Senators—among them Parker of Virginia, Breckenridge of Kentucky, H. S. Foote of Mississippi and William C. Preston of South Carolina; more than a score of Congressmen, two-score and more of judges—among them Trimble of the United States Supreme Court, Coalter, Allen, Anderson and Burks of the Court of Appeals of Virginia; twelve or more college presidents, among them Moses Hoge and Archibald Alexander of Hampden-Sidney, James Priestly of Cumberland College, Tennessee; G. A. Baxter and Henry Ruffner (who presided here) and Socrates Maupin of the University of Virginia. These are but a few of those who here garnered the learning that shed so gracious a light in the after-time on them, their country, and their Alma Mater."

In 1911, before the stress and strain of the world war era,

**When Robert E. Lee refused the presidency of a life insurance company at a salary of \$25,000 at the close of the Civil War on the ground that he did not know anything about life insurance and would not sell his name at any price, and when he refused the gift of an estate in England by admirers in that country to accept the salary of \$1500 a year as president of a Virginia college, not widely known at that time, in order that he might give his life to training the young men of the South, he set an example of self-sacrifice and devotion to duty which has forever given added luster to his great fame as a military genius.**

**At Lexington, in the Valley of Virginia, there was established in 1749 Augusta Academy for the training of the young men of that day. In 1782 this institution became an incorporated body, taking the name of Liberty Hall Academy. With a liberal endowment by George Washington in 1798 and the formal permission to bear his name, this academy became Washington College, and what is now known as Washington and Lee University received further the endowment of consecrated devotion to duty given by General Lee, which was greater in value for humanity than any endowment the greatest millionaire could make to an institution of learning. But Washington and Lee University now needs financial endowment. It is an institution of honor to the South and to the country, doing a wonderful work.**

**A thrilling and interesting story of this institution of learning and of the kind of men who have been turned out by it is given in the following article by Dr. Henry Louis Smith, its president.—Editor Manufacturers Record.**

the New York Evening Post published the following editorial:

"The alumni of Washington and Lee University are naturally gratified by the remarkable number of its graduates who are now occupying prominent positions in politics, on the bench and in the various fields of social activity. A new Justice of the Supreme Court, Joseph R. Lamar, is a graduate of the law school's class of 1878, in which were also ex-Governor Stephens of Missouri; ex-Governor MacCorkle of West Virginia, the present Chief Justice of the Supreme Court of Alabama, the general counsel of the Baltimore and Ohio Railway and the director of the Russell Sage Foundation. In the Senate of the United States are five graduates of this university; Foster of Louisiana, Chamberlain of Oregon, Owen of Oklahoma, Bryan of Florida and Poin-dexter of Washington. Six graduates speak for five States in the House of Representatives, including such useful Congressmen as Slayden of Texas and Hay of Virginia. It is claimed for Washington and Lee that its law school, 'though never large in comparison with such schools as Harvard, Columbia, Yale and others,' has none the less 'more alumni upon the supreme courts in a larger number of States than any other law school in the country.' The chief justice of the court of claims in Washington was graduated in 1868, and still other prominent graduates are Thomas Nelson Page, Clifton R. Breckenridge, lately Ambassador to Russia; Wade H. Ellis, Dr. James H. Dillard, head of the Jeanes Fund, and Julius Kruttschnitt, now prominent as the executive of the Harriman railways.

"Altogether, this is an extraordinary showing, and one which has set people to wondering just why Washington and Lee should have produced so many notable men, particularly during a period when it was sharing the reconstruction miseries and poverty of the South. The St. Louis Republic has a theory of its own about this particular case of Washington and Lee. It is this: 'The kind of education that makes great men is not merely cultural, technical, or what not; it is a training that unlocks the possibilities of personality.'"

Even the historic record of Washington College was outdone by the amazing leadership of Washington and Lee during the tumultuous era of the World War. The following is a partial list of the more important national positions held between 1914 and 1919 by representatives of an institution, which since the Civil War had not averaged a student attendance of 300 men: Secretary of War, Ambassador to Great Britain, Ambassador to Italy; Justice of the Supreme Court of the United States, Solicitor General of the United States, Assistant Attorney General of the United States, two judges of the United States court of claims, general counsel of the United States Food Administration, joint chairman of the National war labor board, secretary of the National war labor



MAIN BUILDING OF WASHINGTON AND LEE UNIVERSITY.

board, chief of legal division, bureau of war risk insurance, president of the American section of the Interparliamentary Union, chairman of the Senate Committee on Military Affairs, chairman of the House Committee on Military Affairs, chairman of the Senate Committee on Banking and Currency, chairman of the Senate Committee on Mines and Mining, chairman of the House Committee on Foreign Relations, with a score of others of scarcely less importance. And this is the list in Washington city alone, during only five years of the Nation's history.

General Lee was the hero of a hundred battlefields, a demigod of war, whose fame as a military leader encircles the globe and grows greater with every passing decade. Yet, as a careful student of his character and career, I venture to declare that, when all the manifold results of his influence and life-work are at last summed up by Heaven's unerring calculus and measured by Heaven's unerring standards, the genius and life-work of Lee the educator, the Christian peace-

maker, the creative engineer of a new industrial South, will outshine, outweigh and far outlast all the more spectacular glories of his military career.

When his starved and ragged handful of heroes surrendered at last to overwhelming forces, the greatest soldier of his

time found himself without a profession, in the midst of a bankrupt and devastated land. Worn by toil and hardship, his wealth gone, his stately home confiscated, and with a helpless family dependent upon him for daily support, he was at once offered wealth and a home in England, wealth and high military position in Egypt, and a huge salary as the nominal head of an honorable business enterprise at home.

Meanwhile, the rector of the board of trustees of Washington College, his borrowed coat and borrowed horse and borrowed money for traveling expenses typifying the desperate poverty of his war-wrecked and bankrupt institution, rode across the Blue Ridge and urged the idol of the South, on a salary of \$1500, not a dollar of which



GENERAL ROBERT E. LEE AS COLLEGE PRESIDENT.



was yet in sight, to bury himself in a mountain village 40 miles from the nearest railroad and undertake the herculean task of rebuilding the fortunes of a bankrupt college and preparing the young men of the South to solve the problems and bear the burdens of their harassed and stormy times.

On one hand, was rest—rest for his worn body and for his



THE LEE CHAPEL.

worn mind, ease and wealth and comfort and medical care not only for himself, but also for those he so tenderly loved; the adoration of friends, a peaceful evening of his stormy life. On the other were ceaseless labor and daily worries, painful and conscientious adjustment to a new and exacting sphere of duty, an unending struggle with grinding poverty and total

trial leadership, 50 years ahead of his age. He at once introduced the elective system, in place of the former fixed curriculum; organized student self-government, in place of exclusive faculty control; the "honor system" in all tests and examinations, and an organized inter-denominational Y. M. C. A. of the national type.

Never had such a leader of men given himself to an institution of learning. One year was spent studying the institution's historic past, its present problems and its possible future service to a wrecked and prostrate land, whose social and industrial system had both been annihilated. Then, with daring progressiveness, with consummate ability, with restless and untiring energy, the reconstruction began.

To the traditional undergraduate work in Latin, Greek, mathematics and philosophy were added in rapid succession departments of English, modern languages, applied chemistry and natural philosophy, and each year a thoroughly planned professional school was presented to the board and formally approved and adopted by it. In 1867 a school of law and equity was instituted, to furnish the new era with highly trained lawyers and legislators. In 1868 a school of civil and mining engineering arose to rebuild the wrecked South. In 1869 a practical and theoretical school of journalism, with 50 free scholarships, was established, to furnish the New Era with trained leaders of public opinion; and in 1870 a thoroughly planned school of commerce and business administration sprang up, for the industrial and economic leadership of the new industrial South. These last two were the first collegiate schools of this type or name in America or the world.

Thus in five years this former superintendent of West Point worked an outstanding miracle in the history of American non-military higher education. Thus he transformed and developed, in five post-bellum years of poverty and wreckage, an ancient classical college into a Twentieth Century university of practical training. Thus he gathered students, teachers and endowments on Washington's educational foundation, saturated the institution with his spirit, fixed for all time



RECUMBENT STATUE OF GENERAL LEE, BY VALENTINE.

lack of equipment and resources; no possible prospect of rest, ease, success, or peace, till he found them all in the grave.

His prompt affirmative decision on the rector's plea was the sublimity of self-renunciation and consecration at the combined call of duty, ability and opportunity. With an educational statesmanship more amazing than his military genius he rapidly transformed an ultraclassical college of the Nineteenth Century type into a training school of civic and indus-

its campus traditions of chivalry, courtesy and personal honor, and, then, worn out by his incessant labors, fell suddenly at his post, and bequeathed to it his matchless example, his sacred dust and his incomparable name. Thus he sacrificed his mortal life that his likework might become immortal, and taught the world the glory of self-renunciation, of whole-hearted Christian consecration, of fidelity to the Heaven-sent duty of the hour at whatever cost of personal

sacrifice. Would God, such a spirit, such dauntless moral energy, such educational statesmanship, were leading our storm-tossed America today!

It seems almost incredible that such an institution, with such a history, such founders and promoters, such immeasurable assets and opportunities, should be crippled and its usefulness severely limited by unrelenting poverty and lack of working capital. This is partly due, of course, to the desolation and disruption of the South during the decades following the disastrous Civil War. But the South of today is no longer poverty-stricken or unappreciative of General Lee's life aim and institution. That his adoring fellow-patriots have left his institution unendowed and inadequately equipped to struggle with relentless poverty is due in very large measure to its unique situation in the South as the only historic institution of learning which receives no tax money or the financial support of any religious denomination, but like Yale and Harvard is financially dependent on voluntary gifts from public-spirited citizens, and must each year refuse a long list of eager applicants because of its poverty.

Those who have studied its character and output firmly believe that in the advancement of our American Christian civilization there is no such opportunity for fruitful investment as in the equipment and endowment of this nursery of national leadership which propagates the ideals of Robert E. Lee, and none more urgently needed by the Industrial South of Tomorrow.

### Plains-Panhandle Dairy Show.

Lubbock, Texas, December 24—[Special.]—Plans are being completed for the first Panhandle-Plains dairy show, which will be held early in 1928. Dairying has grown so rapidly as a Plains-Panhandle industry in the last two years that it is declared this section can stage a show which will open the eyes of the world to the fact that West Texas has large numbers of the best dairy cattle in the entire country.

### New \$250,000 Church for Petersburg.

Details are being arranged by the congregation of the First Baptist Church at Petersburg, Va., for the erection of a new structure to cost about \$250,000, including furnishings and equipment. Plans and specifications for the structure are being prepared by Herbert L. Cain, church architect of Richmond, Va., and Philadelphia, Pa., and are expected to be ready for estimates within a few weeks. The structure will include a main auditorium and Sunday school building, each to be three stories.

### "Truth in Business Indispensable."

Co-operation of the Federal Government with American private business, instead of competition and handicapping control, was urged by Walter F. Jahncke of New Orleans on his election to the presidency of the National Builders' Supply Association, in convention at Cleveland.

"I firmly believe that the day is fast approaching," said Mr. Jahncke, "when Federal and State Governments will practice less of supervision and more of co-operation. \* \* \* Supervision by the Government carried to an extreme, as has unfortunately been the experience in some instances, has discouraged instead of encouraged capital. Co-operation by the Government means just what the word implies—in place of strife, a needed aid that is essential to the present-day functioning of industries."

Beyond this, Mr. Jahncke stressed his appeal for truth in business. "Truth is absolutely essential and indispensable in all our dealings," as he put it. Far from falling into a moribund condition, he concluded, business is merely resting, and he urged his associates to help in "reloading the industrial craft for a long voyage on the sea of prosperity."

### A Business House Stimulates Arkansas.

Somewhat of an example set by the Bankers Association of Arkansas, the American Company of Arkansas has circulated through that State an attractive and convincing advertisement to stimulate co-operation between merchants and other business men and professional men and the farm producers, "to make possible sounder, more prosperous, more progressive conditions for all" in Arkansas. The advertisement in question is about 20 by 14 inches and carries the request, "Please Post," at the top.

Addressed to "all Arkansas merchants and business men," the poster carries a cartoon picturing "the spirit of the New South as represented by an awakened interest in dairying, poultry and livestock raising—the three cash, all-year-round opportunities for Arkansas farmers." The Arkansas home market, it continues, "can accommodate thousands more of pure bred milk cows" and "condenseries, cheese, butter and ice cream plants and other similar establishments will rapidly be located" there when sufficient milk supplies are guaranteed. So, it concludes, the time has arrived for co-operation between the elements mentioned.

These posters are placed in prominent positions in banks, courthouses, mercantile establishments, railroad stations and other spots where crowds are likely to gather.



BUILDING TO BE ERECTED FOR FIRST BAPTIST CHURCH, PETERSBURG, VA.



# An Up-to-Date Model Hospital in a Florida Town.

By DR. WALTER R. WEISER.

[Probably no more modern and up-to-date hospital has been built in America than the one now being completed and which will be opened on January 1 at Daytona Beach. It is not merely a distinct asset to that community, but is an equally invaluable asset to a wide area of tributary country, which has no hospital equal to this one.

The construction of the hospital by the municipality has been under the management of a commission, of which F. J. Niver, vice-president of the Merchants Bank and Trust Company, has been chairman. The other members of the Board of Commissioners are Don P. Shokney, secretary, Henry W. Haynes, George N. Rigby and Dr. Walter R. Weiser. It has had the benefit of the constant work and co-operation of Dr. Weiser, who was for twenty-five years a physician and surgeon in many hospitals, studying closely nearly all important hospitals in Europe and America. He has retired from active practice and is living in Daytona Beach. Dr. Weiser, an intimate associate of many great physicians and surgeons of America, has worked untiringly and, of course, like other members of the commission without remuneration, to secure for Daytona Beach a hospital which is completely equipped from every standpoint, and probably not surpassed in America.

Dr. Weiser protests against our giving any special praise to him for his work in connection with the building of the hospital and writes, "I feel that the other commissioners have done an equal amount of work in different lines for the hospital. I have never served on a board with men who had more devotion to the work and who gave so generously of their time and energy."

What the people of Daytona Beach did in voting a bond issue for the building of this hospital, and the character of the work done in its construction, should stimulate every community in the South not this well equipped to build a similar institution. We venture to say that hospital builders and architects throughout the country will visit this institution for years to come in order to be fully acquainted with the facilities it provides, matching the best of the great hospitals of the big cities of America.

In view of the extreme importance of such hospitals to every part of the country the following condensed description of this plant has been furnished to the Manufacturers Record by Dr. Weiser.—Editor Manufacturers Record.]

The Halifax District Hospital, modern in every particular and costing over \$700,000, will be opened to the public at Daytona Beach, Fla., on January 1 with appropriate ceremonies.

By act of the Florida Legislature a hospital district was created covering an area about 7 by 12 miles. A commission consisting of five men was appointed by the Governor, with authority to issue and sell bonds to the extent of \$750,000, and to assess the district each year in taxes for such amounts as will be necessary to meet the deficiencies of the institution.

The site selected for the hospital comprises 10 acres of land about one mile west of the business center of Daytona Beach on one of the highest elevations on the East coast of Florida. It is surrounded by lakes and woodland and the hospital grounds have been planned by a landscape architect for lawns, flowers, patients' walks and driveways.

The hospital is of hollow tile and stucco, three stories high, with a wing built from each of the four corners of the main structure. It contains 125 beds. The building is fireproof, with concrete floors, covered with tile in the main corridors, Insulite in the patients' corridors and terrazzo in the operating, laboratory, kitchen and laundry departments. The main entrance opens into an attractive lobby and waiting room, with the administrative office opening into the lobby over the registration desk, behind which are the telephone switchboard, bookkeepers' and stenographers' desks. Offices of the administrative staff are arranged along the main corridor, with telephone booths, private waiting rooms for patients, the board room, library, physicians' room, consulting rooms, social-service department and laboratories.

The out-patient department is in the northwest wing, with patients' and ambulance entrances at different ends. In this department are the eye, ear, nose, throat and dental clinics and an emergency operating room, sterilizing plant and plaster room. A complete X-ray department, with facilities for photography, deep therapy and radium administration, is located convenient to the out-patients and those confined to the hospital.

The operating department is in the northeast wing on the

top floor. Two operating rooms face the north and are equipped with overhead and side skylights. The overhead artificial lights are of the shadowless and heatless type and are supplemented by emergency lights operated by a battery system, located in the loft of the building, to guard against temporary disturbances of the city electric current. The sterilizing rooms, nurses' work rooms, doctors' consulting and dressing rooms, showers, etherizing rooms and scrub rooms complete this department. The entire surgical department is equipped with the most complete and modern appliances available.

The obstetrical department occupies an entire wing and is a complete unit, with sterilizing plant, diet kitchen, delivery and labor rooms and nursery. An isolation section in this department furnishes every convenience to nurses and patients without contact with any other part of the department. A general isolation wing is arranged for the same care of any contagious disease carried into the house and one wing is given over for sanitarium patients who require rest, special diets and other special attention. The children's department is arranged with sun porches, playrooms and such details as will make for the contentment and happiness of convalescent children.

Twin boilers have been installed to insure ample heat in case of trouble with either unit. A high-pressure boiler by-passed to the heating plant is for use in emergency. The capacity of this unit is sufficient to supply live steam to all sterilizers, blanket warmers, kitchen apparatus and laundry machinery. A complete laundry is located on the ground floor.

The kitchen equipment is complete in every detail. Four cold boxes of different temperatures are cooled by a Frigidaire system, with a refrigerator of the same type in each of the serving rooms. Patients' food is carried by specially constructed carts, in which the food is always kept hot or cold, as desired. A diet kitchen adjoins the main kitchen and small diet kitchens are operated in each department for the preparation of special diets when ordered.

The call system is made error-proof by the installation of a quadruple check system. The call of a patient is registered in four places and cannot be eliminated until the nurse releases the push button at the patient's bedside. Thus an unanswered call is immediately checked through the nursing heads down to the office of the superintendent. At the bed-

side of each patient, in addition to the call button, there is placed a telephone and radio, which can be used by placing the receivers to the ears when desired.

Two passenger elevators serve the upper floors, each of sufficient size to carry a hospital bed. Most of the rooms have private bath, or bath and toilet between two rooms, and each room has its own lavatory, with hot and cold water. Ice water is served throughout the building by Frigidaire bubblers in the corridors.

A training school for nurses is being organized and a course of training equal to the best will be begun at once. Young women who are high-school graduates or its equivalent will be accepted and the school will comply with requisites of the American College of Surgeons for a class A hospital.

### **\$1,000,000 Development at San Antonio.**

The Woodlawn Park Company of San Antonio, Texas, H. E. Dickinson, president, which is developing a 380-acre tract of land on Woodlawn avenue at a reported cost of \$1,000,000, wires that contract has been awarded to the City Water Board for 16,000 lineal feet of 6 and 8-inch water mains, and to C. A. Anderson, San Antonio, for laying 16,000 lineal feet of 8, 10 and 12-inch sewer pipe. A contract has been awarded to the San Antonio Public Service Company for 17,000 lineal feet of 4-inch gas pipe and 120 light poles, while the Uvalde Rock Asphalt Company, San Antonio, has been awarded contract for street paving. The work will include 35,000 yards of excavation, 75,000 cubic yards of 8-inch rock base, 75,000 cubic yards of asphalt, 32,000 lineal feet of standard curb, 100,000 square yards of cement sidewalks, 20,000 square yards of ornamental stone walls and gateways to boulevard drives, lighting standards for ornamental lighting system and beautification of street and boulevard parking. Walton & Arneson of San Antonio are the engineers.

### **Bethlehem Steel Corporation Improvements.**

The principal improvements and additions completed by the Bethlehem Steel Corporation in 1927 and under way at the close of the year are reported thus by the company:

Completed—Maryland Plant, Sparrows Point, Baltimore, 20,000 kilowatt turbo generator and boilers; one two-strand pig casting machine; three gas producers and two waste heat boilers at open hearth No. 2; one row of soaking pits with producers; one 27-inch by 24-inch four-stand continuous roughing mill and one 21-inch eight-stand continuous sheet-bar and skelp mill; 12-inch continuous skelp mill; four double sheet mills; twelve tin plate mills; two butt-weld pipe mills.

Under way—New stack to replace present "A" stack; two turbo blowers with boiler equipment; four waste heat boilers at open hearth; two lap-weld pipe mills.

### **\$620,000 for Two Office Buildings.**

San Angelo, Texas.—As previously announced, plans are being prepared by Korn & Morgan of this city for an office building to be erected here by the Concho Realty Company, in which H. L. Griswold and associates are interested. The cost of the building will be about \$320,000 without furnishings and equipment. The same interests will also erect a bank and office building at Pampa, Texas, at a cost of \$300,000, according to plans and specifications by the same architects. The San Angelo building will be 12 stories, 50 by 100 feet, reinforced concrete frame, brick walls, tile and cement floors, concrete foundation and Barrett roof, while the Pampa building will be 10 stories, of similar dimensions and construction.

### **Heavy Increase in Motor Tourist Business in Florida in Last 10 Days.**

Daytona Beach, Fla., December 22—[Special.]—Within the last 10 days there has been a remarkable increase in the number of foreign cars in this city and in other parts of Florida. While nearly every State in the North and West is represented and many from the South, New York apparently leads by a large majority. New York cars are in evidence everywhere and the streets in the business section are becoming congested, with parking space hard to find.

Among the many cars seen on the streets here, Ohio seems to be second to New York, with Indiana, Massachusetts, Connecticut, Wisconsin, Michigan and other States well represented.

Indications as reported by the hotels throughout the State seem to give promise of a good tourist season, with a gradual return to normal conditions. Many of the great multimillionaires of the country either have opened their winter homes in Florida or are preparing to do so, and every year shows a great increase in the number of people establishing winter homes in this State to escape the rigors of Northern and Western winters.

### **Nine Office Floors to Be Erected Over Theater.**

Knoxville, Tenn.—Plans have been announced by C. B. Atkin of the C. B. Atkin Realty Company for the erection of nine office floors over the new Tennessee Theater now under construction at a cost of \$1,000,000. The new addition will be in effect an addition to the Burwell Building which has a frontage of 32 feet on Gay street. The combined structure will have a frontage of 71 feet. A total of 81 offices will be provided in the new portion of the structure, each floor to contain the equivalent of 9 offices.

Plans for the addition, which will cost about \$250,000, have been prepared by A. E. Gredig of Knoxville in collaboration with Graven & Mayger of Chicago, consulting architects. General contract for the structure is expected to be awarded at once, and it is likely that the award will go to the George A. Fuller Company of New York.

### **Prizes Offered for High-School Essays.**

Prizes for high-school pupils for the best essays on "Why Louisiana-Made Products Should Be Given Preference in Making Purchases for the Home" are offered by the Louisiana Manufacturers Association, 1409 Whitney Bank Building, New Orleans, the contest closing on Washington's Birthday, February 22. The first prize will be \$25 in gold; second, \$20; third, \$15; fourth, \$10, and fifth, \$5, while also a fountain pen will be presented to the teacher most helpful with suggestions to the students, this teacher to be picked by the first prize winner. Essays are limited to 1000 words and are to be addressed to the Essay Contest Committee of the Louisiana Manufacturers Association.

### **\$2,000,000 Apartment Building for Washington.**

Washington, D. C.—Plans have been announced by the Wardman Construction Company for the erection of a \$2,000,000 apartment building here. The structure will be 12 stories, 165 by 160 feet, of Romanesque design, with brick facing and limestone trim to the third floor. On the eighth floor level an ornamental frieze will run about the building and a similar design carried out above the tenth floor. At a height of about 110 feet, the structure will have a setback. It will contain eight stores on the first floor. Plans have been prepared by Joseph Baumen, architect for the Wardman Construction Company.



# New Process of Fertilizer Manufacture Announced.

MAY ENABLE AMERICAN PRODUCERS TO UNDERSELL GERMAN PRODUCT—EXPERIMENTAL PLANT TO BE ESTABLISHED IN BIRMINGHAM.

[Special Correspondence Manufacturers Record.]

Birmingham, Ala., December 19.

A new and revolutionary process of fertilizer manufacture which is expected to prove of great economic consequence to agriculture has been devised by Stewart J. Lloyd, professor of chemical engineering at the University of Alabama, and A. M. Kennedy, research engineer of the Alabama Power Company, according to an announcement by Mr. Kennedy. The new method of manufacture of ammonium phosphate, highest in plant food of all fertilizers, is expected to put American producers in a position to undersell the similar German product by \$35 a ton.

Commercial production by the Chemical Products Company of Birmingham, a subsidiary of the Southeastern Power and Light Company, New York, will start on a small scale at Birmingham shortly.

The announcement follows:

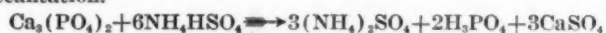
"There seems to be every reason to believe that as time goes on ammonia will be marketed in the form of ammonium phosphate rather than in the form of ammonium sulphate, and when that time comes this country will take over the production of a large part of the world's supply of nitrogen, and both England and Germany must curtail their production. Apparently the location for cheapest cost of production of ammonium phosphate is in the Birmingham district on account of the surplus by-product coke oven gas and low freight rates on phosphate rock from Florida and Tennessee.

"Existing methods for the production of ammonium phosphate require the formation of phosphoric acid as a preliminary step by the use of sulphuric acid or the electric furnace. The sulphuric acid process requires approximately  $3\frac{1}{2}$  tons of sulphuric acid per ton of ammonium phosphate formed. While this process is now in use, the cost of production is necessarily high and will be higher as the shortage of sulphur increases. The electric furnace process produces a high-grade product but requires the use of a large amount of electric energy at costs which are not possible in this section without Government subsidy.

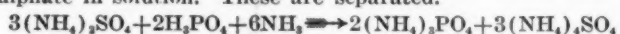
"Since September, 1926, research has been conducted at the University of Alabama in behalf of the Alabama Power Company on the direct production of ammonium phosphate from phosphate rock. A method, using ammonium bisulphate as a cyclic 'carrier' for the phosphate content of phosphate rock, has been worked out which appears to be practicable and more economical than present methods.

"The steps of this process are:

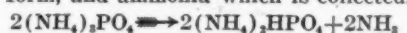
"1. Crushed phosphate rock is digested with a strong solution of ammonium bisulphate. The result of this reaction is a solution containing ammonium sulphate and phosphoric acid, together with a precipitate containing calcium sulphate. These are separated by filtration or by counter current decantation.



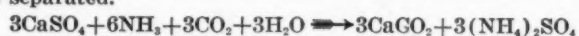
"2. To the filtrate is added an excess of ammonia when triammonium phosphate is precipitated leaving ammonium sulphate in solution. These are separated.



"3. The precipitate is heated in a dryer when it decomposes into diammonium phosphate, which is pulverized to commercial form, and ammonia which is collected.

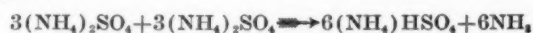


"4. The precipitate form (1) is digested with ammonia and carbon dioxide gas. The result is a precipitate of calcium carbonate and a solution of ammonium sulphate. These are separated.



"5. The ammonium sulphate from 2 and 4 is crystallized

and the crystals heated to about 300° C when ammonia gas is given off and ammonium bisulphate reformed. The latter, at this temperature, is quite fluid and is ready for re-use in step 1.



"The expendable materials in this process are phosphate rock, ammonia and carbon dioxide gas. The latter is a by-product in the production of synthetic ammonia. The only by-product of this process is calcium carbonate which, containing also silica and alumina from the original rock, is probably in excellent physical and chemical shape for the economical production of Portland cement. The laboratory product of this process from Tennessee phosphate rock is a cream colored material which can be easily pulverized and readily put into a form best adapted for distribution by mechanical fertilizer spreaders. Samples were exposed to the atmosphere in open dishes during the late winter and wet early spring of 1927 and did not become moist, cake or in any manner change from the original pulverent form. This material contains approximately 23 per cent  $\text{NH}_3$  and 47 per cent  $\text{P}_2\text{O}_5$ . A mixture of 100 pounds of this with 48 pounds of commercial potassium sulphate would produce a 15.5-32-15.5 mixed fertilizer containing 63 per cent of plant food, or about four times that of the usual 4-8-4 mixture, which could be made by the addition to 100 pounds of the high-grade mixture of about 280 pounds of 'filler' or sand."

Comparative estimated costs of production of diammonium phosphate by the two methods which have been used in this country and by the ammonium bisulphate process for a plant utilizing 10,000 tons of fixed nitrogen per year indicate that the relative costs per ton of ammonium phosphate are:

Sulphuric acid process, \$53; electrothermal process, \$51.11. and ammonium phosphate process, \$34.50.

The announcement points out the suitability of the Birmingham district for the manufacture of fertilizer according to this new method, which is to be used in conjunction with a synthetic ammonia plant utilizing by-product coke oven gas as a source of supply of hydrogen. This district has eight by-product plants with a total of 1410 ovens and an annual output of 6,655,000 tons of coke, 89,680 tons of ammonium sulphate, 110,000,000 cubic feet of by-product coke oven gas daily above that required for heating ovens. Approximately 50,000,000 cubic feet of gas is used daily in the steel furnaces, 30,000,000 cubic feet of gas is consumed industrially and 30,000,000 cubic feet burned under boilers or wasted. The value of the gas burned under boilers on the basis of coal equivalent is  $4\frac{1}{2}$  cents per thousand cubic feet.

Plans for the construction of an experimental plant at Birmingham to manufacture the fertilizer are being made, but as yet are incomplete.

## Bids on Oklahoma City's \$10,329,000 Bond Issue.

Oklahoma City, Okla.—In order that all work contemplated in Oklahoma City's improvement program involving a bond issue of \$10,629,000, which was recently voted by large majorities, may be started within 18 months instead of three years, as first considered, city council will open bids on January 5 for the purchase of the bonds. Three offers will be considered, it is said, the first providing for sale and delivery of all bonds as soon as they are approved by the attorney-general; the second for delivery of part within 30 days after approval by the State, and the third for delivery of part at once and the remainder within certain time limits not exceeding 18 months from the date of the original sale.

## To Develop Louisiana's Orange Industry.

By W. I. SMITH, New Orleans.

The Orange Blossom Route is a little-known railway line, extending from Algiers, just across the river from New Orleans, to Buras, some 60 miles below. The territory it serves is unique. Hugging the west bank of the Mississippi all the way to the Gulf, there is a strip of comparatively high alluvial soil, well drained and fertile, about 75 miles long, with an average width of only one mile. Farther back from the river lie marshes and swamps, unfit for cultivation. But this narrow strip along the railway is a marvelous section both for the variety of its resources and for its possibilities as an orchard and truck-growing country.

This Lower Coast country is very little known, even in New Orleans itself, except to sportsmen, who find there wonderful fishing and hunting. There are Canadian geese, blue geese and snow geese, and many varieties of shore birds.

But it is rather by the possibilities of agricultural development that the visitor is most impressed. As one approaches the Gulf in a two-hours' ride from the Crescent City, the semi-tropical merges into the truly tropical with great swiftness. Along the lower end of this strip, for example, bees swarm in February. The "package bee" industry, by the way, and the raising of queen bees are among the almost untouched possibilities of this section, according to E. C. Davis, bee expert of the agricultural extension force of the Louisiana State University. It is not generally known, even in Louisiana, that, even though it is just in its infancy, the package bee sales from South Louisiana exceed the income from the strawberry industry in the "Florida parishes."

Although this narrow strip includes 35,000 acres suitable for cultivation, only 10,000 is now being cultivated. Of this acreage, until 1927, about half was devoted to citrus fruits, with sugar-cane next—3000 acres—approximately 1000 acres in truck crops and the remainder in miscellaneous crops. Considerable attention also has turned recently to poultry and dairy cows, with gratifying results.

Unfortunately, from the standpoint of agriculture, trap-

ping, oyster and shrimp fishing, etc., afford so many ways of making a living that many of the natives have not developed their holdings as they might otherwise have done. In other words, the very ease of making a living, as in all tropical countries, encourages industrial lassitude and weakens appreciation of Nature's generosity.

For example, the citrus industry: Until very recently it was possible to buy all the Louisiana oranges one wished for a cent apiece, or less. The fact that they were delivered to the purchaser in an old grain sack or a soapbox, or dumped on the floor of his flivver, if he went after them, did not alter the fact that in color and flavor they were among the finest oranges in the world. Such as found their way into the town markets brought very little return to the grower, for they were carelessly packed, often ungraded, and bore no distinctive brand or label. Neither the growers nor the buyers were "educated" on the Louisiana orange.

But all that is changed now. The Missouri Pacific has bought the "Orange Blossom Route" and is building a fine roadbed. Its agricultural experts have succeeded in getting the citrus growers organized, and with John Evasovich, one of the most successful growers, as president of the Buras Orange Growers Association, the future of this industry looks very bright. A packing shed has been provided, where all fruit will be properly graded, wrapped, packed and shipped out, under a distinctive brand. This packing will be personally supervised by an expert from Florida and, as carelessness in handling and grading has been till now one of the chief handicaps, this indicates that, when the Louisiana Lower Coast growers invade the various markets of the country this season with something over 500 carloads of fruit, land along the Orange Blossom Route will appeal to many persons. The present prices average \$100 per acre for farm land to \$500 per acre of bearing orange trees. The improvement of the railroad, supplemented by a splendid State highway, being rapidly pushed toward completion,



ONE OF LOUISIANA'S ORANGE GROVES.



placing New Orleans in easy reach, assures the farmers ample marketing facilities for their produce.

For this prospect the Missouri Pacific is given much credit; also, its activities in flood relief last spring are well known. Now comes the long haul to get flood afflicted Louisiana back on its feet. No corporation is doing more for a permanent prosperity in large sections of the South than the Missouri Pacific. What it is doing for the Lower Coast is only one of the ways in which it is helping the whole country.

### Gas Consumption Rises in 1927.

In an annual review of the gas industry, President Oscar H. Fogg, of the American Gas Association, says that the estimated consumption for 1927 is 475,000,000,000 cubic feet, an increase of 20,000,000,000 cubic feet over the record-breaking total registered for 1926. The consumption is figured as 334,000,000,000 cubic feet for household purposes; 135,000,000,000 for industrial and commercial uses, and 6,000,000,000 for miscellaneous purposes.

In commercial and industrial heating the consumption for 1927 showed an increase and attained a percentage of 28.4 in the total sales of gas for all purposes. Manufactured gas companies now serve 11,400,000 customers; the miles of main total 91,000; invested capital, \$2,700,000,000; gross operating revenue, \$52,000,000, an increase of \$20,000,000 over 1926. Sales of manufactured gas have increased 352 per cent in 25 years, while the population of the entire country has increased 50 per cent, says Mr. Fogg.

Most recent figures show annual sales of natural gas to be 1,714,000,000,000 cubic feet, Mr. Fogg adds, with 14,731,000 customers and \$785,000,000 gross revenue.

### New \$750,000 Building for Birmingham.

Birmingham, Ala.—Plans have been announced by the Protective Life Insurance Company of this city for the erection of a new office building to cost about \$750,000. The structure will be 14 stories, of steel and terra cotta, with a verde antique roof, and will involve the use of the steel frame and double foundation of the old Birmingham Leger Building, which was purchased as a site for the new structure. Warren, Knight & Davis of Birmingham are the architects.

### High Price for Jacksonville Bonds.

Jacksonville, Fla., December 22—[Special.]—The city commission has sold \$335,000 of bonds for paving purposes to the Detroit Trust Company, Detroit, Mich, for \$349,976, or at the rate of 104.47. This is said to be the highest premium paid for Jacksonville paving bonds in several years, thus indicating the high financial standing of this city.

### \$700,000 Building Planned for Monroe.

Monroe, La.—Plans for the construction of a \$700,000 office building here are being considered by S. D. Hunter of Shreveport. The building will be either five or seven stories, it is said, and will provide office space for the Ouachita Natural Gas Company and others.

### Contract for \$1,000,000 Army Barracks.

Fort Sam Houston, Texas.—General contract for the erection of two barracks units at Fort Sam Houston has been awarded by the Construction Quartermaster at this post to L. T. Wright & Co., San Antonio, it is announced. The two units will cost about \$1,000,000.

## \$5,000,000 Bank Building Opened in New Orleans—New 19-Story Structure One of Largest in South.

With the formal opening of the new \$5,000,000 building of the Canal Bank and Trust Company of New Orleans, that institution enters upon a new phase of its development work started in 1851, its charter authorizing the company, primarily to dig a canal and incidentally to engage in the banking business. The canal, which was known as the New Basin Canal, was one of the most important factors in the growth of New Orleans during the past century, and the Canal Bank, since its devotion primarily to banking, has the reputation of being a constructive factor in the city.

The new building, one of the largest in the South, is 19 stories, rising 286 feet above the street, and is of steel, brick,



NEW BUILDING OF CANAL BANK AND TRUST COMPANY, NEW ORLEANS.

limestone, concrete and marble. It covers a ground area of 29,000 square feet. Its design is early Florentine and the building is without ornament except for the emblematical medallions of learning and thrift in the arch blocks, hand-wrought grilles and lanterns, bronze doors and flagstaff. Some of the principal items used in its construction are 72,000 sacks of cement, 5350 tons of structural steel, 4200 tons of Indiana limestone, 1,750,000 brick and 400,000 feet of flooring. The main banking room is three stories high, of Roman palladium type, with walls of Hautville marble and floors of Levanto and Belgian black marbles. About 65,000 tons of materials went into the building.

Five vaults have been installed, including safe deposit, trunk, cash, corporation and book vaults. The safe deposit vault measures 47 by 16 feet and contains 6500 private boxes. It is made of rustproof material and has a 40-ton entrance door, one of the heaviest in the South. Hundreds of piling, driven to the deepest point of penetration, support its weight, and it is considered burglar-proof and mob-proof. Beside their thick construction of concrete and steel, the walls are further protected by elaborate electrical devices, which con-

vey the sound of noises through loud speakers into police and protective headquarters.

Emile Weil, Inc., is the architect and O. M. Gwin general contractor for the structure.

### **\$1,500,000 Development Planned for El Paso.**

El Paso, Texas.—The development of a hotel, sport club and residential subdivision at an expenditure of approximately \$1,500,000 has been undertaken by Warren Pilcher of El Paso and associates. An option on 675 acres of land as a site for the development has been taken by Mr. Pilcher, according to C. N. Bassett, president of the State National Bank, El Paso.

It is understood that approximately 175 acres of the land will be used for a hotel, polo grounds, tennis courts and golf links, while the remaining 500 acres will be leveled, landscaped, provided with water and other utilities and sold for residential purposes. Trost & Trost of this city have prepared sketches for the hotel and adjoining grounds. Plans call for the completion of the project by November of next year.

### **To Start Construction Soon on \$2,000,000 Montgomery Ward Building at Fort Worth.**

Construction is expected to begin by the middle of January on a new \$2,000,000 building at Fort Worth, Texas, for Montgomery Ward & Co., Chicago, who have purchased as a site for the new structure a tract of 15 acres near the location of its present Fort Worth building. The new building will be 360 by 220 feet, 8 stories, built in the shape of a U with an 80-foot court, of reinforced concrete flat slab construction and equipped with steel sash, sprinkler system, fire alarm system and other facilities. Its concrete exterior will be buff colored and its floor area will cover 550,000 square feet. Show windows will be built across the entire front, a retail store to occupy the first and second floors of the west wing. The eighth floor on the east side will be devoted to offices, while the west side of the same floor will afford space for a cafe, doctors' offices, library and recreation rooms. Switch tracks will be located in the court.

The structure will be practically of the same size as the company's buildings at Portland, Ore., and Oakland, Cal., but smaller than those at Chicago, Kansas City, St. Paul and Baltimore. The total floor area of all Montgomery Ward buildings is approximately 8,000,000 square feet. The new Fort Worth building is expected to be ready for business early in the fall of 1928. W. H. McCauly of Chicago is engineer of construction for the company.

### **A Strong Commendation of the American Mining Congress.**

Napier Iron Works.

Nashville, Tenn., December 15.

*Editor Manufacturers Record:*

It is always a source of genuine satisfaction to review an issue of the MANUFACTURERS RECORD, for the reason that it is, as our friend, John Edgerton, president of the National Association of Manufacturers, has so aptly said, "an interpreter of American ideals—an indefatigable advocate of the wisest and most constructive policies for the effectuation of those ideals," and it is the only weekly publication of which I have knowledge which chronicles the activities of the South, especially in the matter of its development, in a manner absolutely dependable.

Mr. Garner's review of the thirteenth annual convention of the American Mining Congress in your issue of December 8 is especially significant, depicting, as it does, a bird's-eye view of the activities of this memorable conclave.

As you have pointed out, by implication at least, the American Mining Congress is a magnificent organization, endeavoring to deal only in hard facts on behalf of the mining industry. Its growth during the year 1927, measured by its accomplishments within that period, is a source of great satisfaction to me, and I am sure it is regarded by you as deeply important. So to speak, it is just reaching its stride, and I hope in the years to come that its influence will be so far reaching that in its membership the Congress will record 100 per cent of the mineral production in the United States, instead of 87 per cent, as existed, according to our records, at the time of our meeting in the early days of December.

Personally, I feel keenly indebted to you and to the MANUFACTURERS RECORD for the wholehearted co-operation which you have so continuously given to the American Mining Congress and the members of our staff.

WILLIAM H. LINDSEY, President.

### **\$1,500,000 for Beaumont Gas Franchise.**

Beaumont, Texas, December 20—[Special.]—Negotiations for the sale of the natural gas franchise here by the Southwestern Gas and Electric Company to the Moody-Seagraves interests, of which the Dixie-Gulf Gas Company of Houston is a subsidiary, have been consummated, the consideration being \$1,500,000. The natural gas supply of the city is now obtained from the Magnolia Gas Company, subsidiary of the Magnolia Petroleum Company, but it is stated that with the completion of the pipe line of the Dixie-Gulf Gas Company from the field near Shreveport, La., the latter company will furnish natural gas for the local system.



THE NEW MONTGOMERY WARD BUILDING.



# How Mississippi Women Are Working for the South's Development.

By ELLEN S. WOODWARD, Jackson, Miss.

[Mrs. Ellen S. Woodward is a member of the Mississippi legislature and participated in legislation designed especially to attract new industrial enterprises to the State. Also, she was appointed director of the women's division of the Mississippi State Board of Development, an organization that is doing much to stimulate Mississippi's advancement. In this article she tells how the women of her State are contributing to its progress, and points out work that the women of all Southern States are doing, or can do, to advance the South in industry, agriculture and in other fields of development.—Editor Manufacturers Record.]

A certain more or less popular romantic literature has it that the women of the South are a languid race, running to graceful figures, charming manners and dawdling habits, afternoon socials and the like, with absolutely no thought of constructive things. Nothing could be farther from the truth, or more odious to Southern womanhood.

The women of Mississippi are taking part in the work of the men in the development program now being carried out in this State. It has aroused considerable comment. There is no reason why. Organized Southern women for many years have engaged in constructive enterprises. I dare say no other section in the world can produce a better record for women workers than can the Southern States. Southern men certainly should understand that their women's organizations are tremendously interested in highways, better schools, good hospitals, welfare homes, churches, civic centers and the like. Yet some persons smiled when it was announced that the Mississippi State Board of Development had organized a women's division.

The women of the South are proving they are most important factors in that section's growth and development. When I say factors, I do not speak alone of cultural things—music, literature, fancy dancing, juvenile training and the like. Those things are of more or less importance; but I mean the women are proving that they can grasp the more material undertakings that are advancing the South today in industry, agriculture, railroad construction, public works and whatnot. The women's clubs of Mississippi are enlisting in the work of the Mississippi State Board of Development. I have been named director of the women's division of this board. In two months' time I discovered that, active as we have been, the organized women of the South have not scratched the surface of their possibilities through lining up more strongly in the material progress of their States.

Is it industry? We have an important interest in industrial progress; for, the Southern women must know that the South is facing an era of unparalleled industrial development, and they must know that this development means advancing their various programs—means more educational progress, more opportunities to employ the skill and training of their educated sons, more opportunities for civic growth and betterment. This means keeping our educated boys at home.

Is it agriculture? It must be readily recognized that the upbuilding of Southern farms means greater prosperity, more children in school, more mothers with easier loads, fewer girls crowding into the cities and their hazards; it means better milk for our babies; fewer deaths from in-

fect milk; a stronger and sturdier race through the availability of more, good, wholesome, nutritious milk, butter, cheese, eggs, ice cream, poultry. This development means the keeping of the Southern woman's dollars at home.

When the distressing cotton situation came about, the women of the South were the first to take steps to overcome it, although it was found to be somewhat impracticable to wear only cotton garments. Through the Mississippi

State Board of Development, the women of this State now are working to drive out the cattle tick and make dairy farming possible, to make livestock thrive, to make diversification succeed. This is real practical work in overcoming any unfavorable cotton situation. For, as long as the farmer of the South continues in one-crop folly, just so long will distressing cotton situations at times arise, no matter how many cotton garments may be worn.

When we speak of the work of the organized women of Mississippi, we speak not alone of the fine hospital that the King's Daughters erected recently at Greenville. We speak not alone of the interest of our women in the Jefferson Davis Memorial Highway. We speak not alone of the clubhouses, civic centers, etc., that our women are building. We speak not alone of our efforts in educational progress. We do speak also of our willingness to work, hand in hand, side by side, with our men who are building the New South.



MRS. ELLEN S. WOODWARD.

The spirit of the New South isn't a new thing with our women, any more than with our men; it always has been with us. It was with us before and after the dark days of the reconstruction period. That spirit is with the women of Mississippi today and it will not down; it will not die. We work today in the spirit of that woman described in an editorial in the MANUFACTURERS RECORD some time ago, the woman who greeted her sorrowful husband back from a disastrous war, smiled as they looked over their wasted farm home and said, "We'll begin again, my dear."

The women of Mississippi are enthusiastic over the work of the Mississippi State Board of Development. With such men, it is a real joy to work and plan for the material advance of this land we love and believe in with all our hearts. They are men of the New South—men with the spirit of progress that has made ours a splendidly achieving race.

One might say the South is the Nation's flowerpot, a beautiful, gorgeous thing to come and see and smell; or, the Nation's playground, a truly restful, delightful land to visit; or, the Nation's history book; or, the Nation's field of romance and play. All that is a very small part of what the South offers to American advancement.

The South offers industrial investments not excelled any-

where; it offers agricultural opportunities no other section can match; it offers living conditions superior to any other land in the world; it offers a surplus of labor that can manufacture the products that the whole world requires; it offers opportunities galore in development of the furniture industry, paper-making industry, ceramic manufactures; it has vast storehouses of minerals; illimitable resources in coal, iron, steel, textiles, power development, hotel construction, public works and highway development. Coal and iron? We women of the South are vastly interested in the industrial development of these products. A piece of iron means to us the material for a crossbeam that will support a portion of one of the great office buildings of the advancing New South. A smutty piece of coal does not look dirty to us; we see in it the beauty of a useful commodity in Southern advancement.

The women of Mississippi are reading industrial and agricultural literature. They are striving to keep up with everything pertaining to the economic advancement of their section.

### A Southern Concern's Christmas Issue.

Outstanding among the Christmas issues of publications which come to the MANUFACTURERS RECORD is Acipco News, published monthly by the Young Men's Christian Association of the American Cast Iron Pipe Company, Birmingham, Ala., the number being filled with fine reading material, supplemented by capital illustrations. The versatility of the paper may be noted on the second page, on which in one column appears an article on the Acipco Baptist Church and announcement of basketball practice in the gymnasium—without the least indication of incongruity.

Announcement also is made that prizes for regular service by employees of the operating department will be awarded as follows: For working every day, \$25; every day except one, \$20, and so on down to every day except four, \$5, together with turkeys for first prize winners. Cash bonuses also will be paid for continuous employment at the rate of \$2 a year of service. Time lost through accident in the shop, or shutdown, or jury duty or such reasonable causes will not be counted.

### Contract for Normal School Auditorium.

Salisbury, Md.—General contract for the erection of a classroom and auditorium addition to the State Normal School here has been awarded by the State Department of Education, Baltimore, to Frainie Brothers & Haigley of Baltimore, at \$192,500. The new unit will be three stories, of brick construction and will provide space on the first and second floors for classrooms and on the third floor for an auditorium to seat 800. Smith & May of Baltimore are the architects. Dr. William J. Holloway is principal of the school.

### Bids Asked on \$300,000 Courthouse.

Eastland, Texas.—Bids will be received until January 9 for the new \$300,000 courthouse to be erected here by Eastland county, Ed S. Pritchard, judge. As previously reported, the building will be six stories and basement, of brick, stone and reinforced concrete construction. Lang & Witchell of Dallas are the architects.

### Building Supply Association Meets in Roanoke.

The annual convention of the Virginia State Lumber and Building Supply Merchants Association is to be held at the Hotel Patrick Henry, Roanoke, Va., January 13-14, according to M. H. Mitchell, secretary, of Roanoke.

### \$2,500,000 Hotel for Richmond.

According to a recent announcement by Mason Manghum, managing director of the Chamber of Commerce of Richmond, Va., a 400-room hotel to cost about \$2,500,000, including site and furnishings, will be erected at Fifth and Franklin streets in that city by Richmond Hotels, Inc., in which Lee Paschal, vice-president of the Wise Granite and Construction Company, Inc., of Richmond, is interested. Mr. Paschal advises that Richmond Hotels, Inc., have purchased a site 155 by 163 feet for the hotel, in which provision will be made for stores, convention hall, ballroom and roof garden. Marcellus E. Wright of Richmond has been authorized to prepare plans and specifications and construction will be handled by the Wise Granite and Construction Company, Inc., work to begin as soon as plans have been completed.

Richmond Hotels, Inc., own and operate the Richmond Hotel and William E. Byrd Hotel in Richmond, and it is the intention of the company to operate the new hotel.

### 300-Mile Pipe Line to Operate Soon.

Waskom, Tex.—The 300-mile pipe line being constructed from the Waskom field to Houston, Port Arthur and other towns by the Dixie-Gulf Gas Company, Houston, is expected to be ready for operation by January 1, making available 150,000,000 cubic feet of gas daily for fuel purposes and to serve a number of large residences. The line consists of 139 miles of 22-inch pipe and three branches, one of 18-inch pipe, 76.5 miles long; one of 16-inch pipe, 64 miles long and another 16-inch line 20 miles long. The first branch extends from Goodrich to Port Arthur, the second from Goodrich to Houston and the third from Nederland to Orange. In preparing the pipe lengths for laying they were joined together by hydraulic pressure and the seams closed by electric welding.

### Oklahoma City Building Permits \$14,500,000 for 11 Months.

Oklahoma City, Okla.—Figures compiled by the Oklahoma City Chamber of Commerce indicate that this city is in the midst of a great building era. For the first 11 months of the current year building permits were issued to an aggregate of \$14,500,000, surpassing the entire year of 1926, which was considered a record one, by almost \$4,500,000. Permits were issued in October for construction estimated to cost \$3,117,086, ranking the city as 12th for that month among leading cities of the country. Residence permits for 1927 show that a home is completed on an average every hour and one-half of each working day.

### Contract for \$1,000,000 Building in Fort Worth.

Fort Worth, Texas.—General contract has been awarded to the Hewitt Construction Company of Houston by the Fort Worth Properties Company, John T. Jones, president, for the erection of the \$1,000,000 Electric Building of 18 stories, the basement and first five floors to be occupied by the Fort Worth Power and Light Company and the remaining floors devoted to general office use. Wyatt C. Hedrick, Inc., of Fort Worth is the architect and plans will probably be ready within six weeks.

### Increase in Winter Wheat Acreage.

Winter wheat sown for next year's harvest is estimated at 47,897,000 acres, an increase of 10.2 per cent over the revised estimate of the area planted a year ago. The acreage planted this fall, while the largest since 1922, is well below the large acreage planted in 1918 just before the close of the war.



## Further Thoughts on the Negro Question.

By FRANK PEMBROKE HUCKINS, President, Warren-Huckins Company, Jacksonville, Fla.

It was a pleasure to a transplanted New Englander to read George Garner's article on the negro question. He views the situation with an accuracy that few Northerners, living in the North, command.

The fact is, there is no negro problem anywhere except in the North. I was born and brought up in Boston, which, as Mr. Garner says, is the very center and source of most of the maudlin sentiment over the negro. In spite of my New England ancestry, among my earliest recollections was a distaste in seeing a negro speak from the pulpit of the church I attended, worthy as was the cause he expounded. Later, when I went to college, the street car line I had to use passed through the negro district, and my distaste for such close contact was further increased. In moving South, several years ago, I was somewhat like the famous New York wit, who said that when he retired, he was going to settle in Ireland, and, when asked why, stated that it was the only place in the world where the Irish did not have any influence. I moved South and got away from the negro question.

The negro question is a State's question. It always has been a State's question. It always will be a State's question. I would even go so far as to say that if that axiom had been better realized in the East in the 1850's there would never have been a Civil War, enlightened public sentiment would have freed the negro from slavery in due course, and the country might have avoided a disaster that took generations to heal.

When I first came South to live, after many years of visiting in Florida, I made the mistake one day of saying that the negro was a blessing in disguise to the South, and was promptly stamped as a "nigger lover" by two hotheads. After living here a number of years, I repeat, that the negro is a blessing in disguise to the South, and I mean just this: The negro is the common labor of the South, by nature and disposition. By racial instincts, he is happy of disposition, amenable to orders, requires little to live on and is perfectly content to live among his own kind. In the North, as common labor, we have had the scum of Europe. In intelligence, that scum hasn't very much on the negro; in disposition, the negro is decidedly preferable; instead of being amenable, we find the I. W. W. and other riotous and anarchistic bodies made up wholly of that class, and, what is the greatest point of contrast, far from being content to live among their own kind, they tread on your wife's feet in the street cars, breathe

garlic in your face at the moving pictures and stick their elbows in your ribs at the ball game. Hence, I much prefer the South, with the negro in his place, than the North, with the negro a theoretical social equal.

The funny part of it is that, with the exception of the morons who frequent the Harlem cabarets, the Easterner when he actually comes in contact with the negro feels exactly as the Southerner feels. The same meddlesome old maid who offers strenuous resolutions for the equality of the negro before the meeting of her church "social and benevolent society" will draw her skirts prissily and cast murderous glances in the direction of a negro who slumps down beside her in the street car.

The one thing that I cannot understand is the attitude of the Republican party toward the negro question. I hasten to say that I am not a consistent member of either party. I found it difficult to vote a local Democratic ticket in the North, and impossible to vote a local Republican ticket in the South. Divorced of all the garnishments that politicians hang on the party platform, the planks in the platform are calculated to do one thing—win votes. The Republican party continues to espouse the negro in its platform. On the one side, there may be a handful of people who would not vote the ticket were it not for that plank, while 99 per cent of the party don't give a hoot about the negro question. On the other side of the ledger, just so long as the Republican party carries a negro plank, there is not a Chinaman's chance of obtaining a vote of any consequence in 10 States in the South—the growing part of the country.

This is a bad thing both for the Republican party and the South. If continued, it will surely cost the Republicans many elections for national control. It is bad for the South, because only where the race is close and doubtful politically do Congress and the politicians take a hearty interest. The State that always goes Republican gets small attention from the Republicans, because it is a sure thing, and no attention from the Democrats, because it is a sure thing the other way, and vice versa. It would be better for the country if every State was always in doubt and the vote went to the party or man who had shown the best previous performance.

Hence, my desire as a Southerner to see the negro question left in peace, as a matter of local opinion, and with it the negro left in peace, content to stay in the social position which nature has given him and law cannot change.

## Another View of the Same Question.

By P. B. YOUNG, Editor, Journal and Guide, Norfolk, Va.

I have read in your issue of November 24 your editorial, "The Negro Apparently Not Wanted in Philadelphia," and in your issue of December 1 Mr. Garner's article, "The Negro Question As It Relates To Negroes in the North and South." I assume that the great majority of your readers view the complicated problems growing out of America's racial duality with an open mind. Most of them, no doubt, hold out hope of an ultimate adjustment that will be fair to both races, and that will not do violence to either. There is so much hopelessness in Mr. Garner's article that I am sure you will render a service to your readers by publishing an address by Louis I. Jaffe, editor of the *Virginian Pilot*, which points the way constructively and sympathetically to an understanding of the question.

Perhaps, I have misunderstood the point made in your

editorial by the story of the old negro thief in Georgia and Mr. Garner's story of the white-haired negro beggar in a Northern city. Both stories are related, as I understand, to illustrate the Southerner's kindness to the negro. I should think that, dealing with a generation much removed from the types used, Southerners and others who wished to emphasize the South's true attitude toward the negro would refer to the opportunities for education and character building offered the negro here, which, although woefully inadequate, are constantly improving.

In contrast with Judge Lewis' declaration that from 75 to 80 per cent of persons held in prison in that city are negroes from the rural districts of the South, permit me to quote the following paragraph from a statement made for the Journal

and Guide on November 5, by Editor Gonzales of The State, Columbia, S. C.:

"Economic conditions have a tremendous influence in character-building, regardless of race or color. With the better economic conditions of negroes in such cities as Columbia, living standards have risen; self-respect increased; education generally sought. Self-respecting people do not commit crimes. Since the World War, economic conditions have been in favor of negroes and against a large element of the poorer classes of whites. An immediate result is: More whites than negroes in prison in South Carolina."

In all probability, many of the negroes now giving Judge Lewis and others concern in Philadelphia are from the rural districts of South Carolina. Now, in order to throw light upon the sort of opportunities these negroes have had for education and character-building, as compared with such opportunities afforded whites, permit me to quote from a recent survey of South Carolina negro schools made by a representative of the Garland Fund:

"In 1920 there were 818,538 whites and 864,719 negroes in South Carolina.

"In 1925-26 the State spent \$14,673,719 for white schools and \$1,655,652 for negro schools.

"The cost of the negro schools was \$203,033 in 1900, and in 1925, a quarter of a century later, this had increased to \$1,800,150. On the other hand, the cost of the white schools was \$693,807 in 1900, and in 1925 was \$11,561,819. In other words, South Carolina spent over three times as much on her white schools as on her negro schools at the beginning of the century, and at the end of the first quarter of the century was spending over six times as much. And during this time there were more negroes to be educated than whites."

Is there any wonder that the negroes who have migrated to Philadelphia from the South have added to the criminal element of that city, when it is understood that South Carolina is a typical Southern State?

I should like to make reference to one other point made by Mr. Garner—the negro vote in the election of Mayor Thompson of Chicago, which he cited, no doubt, to show the venality of the negro in Northern politics. I hold no brief for the Chicago politicians and political conditions in Chicago, but I am wondering if Mr. Garner is aware that more than 400,000 white Chicagoans voted for Mr. Thompson, and that he would have been elected by 45,000 majority if not a single negro had voted for him? I mention this merely because the Chicago election has been used so frequently of late against the negro, and by persons of high standing and authority, such as ex-Secretary of War Newton D. Baker, who is quoted as having declared in the course of an address at St. Louis that Mayor Thompson was "elected by the organized ignorance of Chicago, composed of 300,000 negroes." There are only 160,000 negroes in Chicago, including children.

I have written at this length because I believe in the fairness of your great journal, and in your own sense of justice and fair play, which has dominated your public acts and utterances. Mr. Garner's article does the negroes of the United States an injustice.

### New Buildings for University of Tulsa.

Tulsa, Okla.—Plans are being considered by directors of University of Tulsa for the erection of a fine arts building, petroleum engineering building and an Indian museum, for the last of which a State campaign to raise \$250,000 will be conducted by a committee, of which Mrs. Eugene Lorton of this city is chairman. The museum would be used to house relics of territorial days, and as a memorial to Oklahoma tribes. All the new buildings will be of the Tudor Gothic type of architecture. A committee has been named by the directorate to select an architect for the fine arts building.

### Sub-Contracts on \$500,000 Reformatory Building.

The Davis Construction Company, Baltimore, general contractor for the erection of the new \$500,000 administration and cell building at Jessups, Md., for the State Board of Welfare, Robert B. Case, secretary, Baltimore, advises that the following sub-contracts have been awarded:

Alberene stone—American Tile & Cement Company, Baltimore.  
Brickwork—Frank Downing, Baltimore.  
Composition flooring—Special Service Flooring Company, New York.  
Granite and cut stone—Seymour Ruff & Sons, Baltimore.  
Hardware—Hubbard & Eagleston, Baltimore.  
Kalamain doors—Brauns & Graham, Baltimore.  
Millwork—Helse & Bruns Mill & Lumber Company, Baltimore.  
Reinforcing bars and miscellaneous steel—Dietrich Brothers, Baltimore.  
Slate roofing—Lawrence Lubbers Company, Baltimore.  
Steel sash—Baltimore office of Detroit Steel Products Company, Detroit, Mich.  
Vault door—Baltimore branch of York Safe & Lock Company, York, Pa.

As previously detailed, general contract for the building was awarded at \$229,750, while the cell work, which will involve the installation of 392 cells in four tiers, was awarded to the Van Dorn Iron Works of Cleveland, Ohio, at \$209,655. Harry L. Black & Son, Baltimore, were awarded plumbing contract at \$43,274, with heating and lighting contracts reserved. The building will be 270 by 55 feet, 55 feet to the cornice, of brick and steel, with granite trim, slate roof, cement, marbleoid and terrazzo floors. Cell tiers will be 8.6 feet apart. Theodore Wells Pietsch is the architect and George E. Painter mechanical engineer, both of Baltimore.

### Bankers to Tour North Carolina.

A bankers' tour of North Carolina is being sponsored by the North Carolina Bankers Association, according to Paul P. Brown, secretary, of Raleigh, who advises that the tour is an effort on the part of the Association to familiarize State bankers as well as others with the outstanding interests and industries of the State. The tour will be conducted from February 15 to 25, the following cities to be visited: Greensboro, Concord, Charlotte, Asheville, Raleigh, Kinston, Greenville, Rocky Mount, Fayetteville and Sanford. At each stop those on the tour will be guests of local bankers who are co-operating with the Association. The thirty-second annual convention of the Association will be held at Pinehurst, May 3-5.

### Work to Begin on \$500,000 Deep Water Port.

Harlingen, Texas, December 20—[Special.]—Proceeds from the sale of the Arroyo Navigation District bonds, amounting to \$505,046, have been received by J. B. Chambers, Sr., chairman of the district. He announced that work on the project for creating a deep-water port at Harlingen in the Lower Rio Grande Valley will be started as soon as the Federal Government designates an engineer to make necessary surveys and to supervise construction of the channel. The channel is to be obtained by dredging the Arroyo Colorado, which runs inland 25 miles from the Gulf to Harlingen. The project also involves dredging a channel from the mouth of the Arroyo Colorado through Laguna Madre to Point Isabel, where another deep-water port is being constructed.

### New Hotel Opened at Wytheville.

Wytheville, Va.—The new four-story hotel erected here by the George Wythe Hotel Company has been completed and formally opened. The building is of brick and concrete construction and contains 43 rooms, of which 30 are equipped with private baths. Frye & Stone of Roanoke are the architects and Morris C. Miller & Son, Christiansburg, Va., general contractors.



## A Unique Industry in a Texas Town.

HOW THE SHELL OF THE ARMADILLO IS CONVERTED INTO ATTRACTIVE BASKETS, WHICH ARE SOLD ALL OVER THE WORLD.

By AL HILL.

The little city of Comfort, Texas, is regarded as an exceptionally attractive community, located near the entrance to the hill country in Kendall county, on the Old Spanish Trail, hardly half a hundred miles northwest of San Antonio. Its chief claim to distinction, however, lies in the fact that it is the home of a unique industry, the manufacture of baskets from the hard accordion-like shell of the armadillo. It is understood to be the only industry of its kind in the world. Its development has come about through the accidental discovery some eighteen years ago by Charles Apelt that the armadillo shell could be put to a commercial use. Today 50,000 of Apelt's armadillo baskets are being shipped yearly to the far corners of the globe. England, Germany, the Hawaiian Islands, New Zealand, Australia, South Africa, as well as every State in the Union, buy these baskets. Each basket represents a retail price ranging from \$3 to \$6, and, aside from a few shipments to curio dealers, most of them are sold at retail.

For 15 years Charles Apelt lived on his small farm, three miles west of Comfort, in a little log hut, made by his own labor. Then, one day an armadillo crossed his path. He killed it with a stone. The armadillo is a native of southwest Texas and Central America, and received its name from the Spaniards because of its nine-banded armored shell. It is a mammal of the ant-eater family and subsists on insects, roots, eggs, its place of abode being in burrows several feet underground, and it seldom walks abroad before nightfall. So this armadillo that crossed Charles Apelt's path was the first one he had ever seen. Not knowing whether the animal was good for anything, after he had shown it to his wife, he threw it away. A day or so later, while crossing a field, he came upon the carcass and noticed that the hot Texas sun had caused the thing to curl into a peculiar shape, its tail bending towards its head, almost touching the snout. Having served an apprenticeship to the basket-making trade while a lad in Germany, this unusual aspect of the dead animal suggested "basket." There was born the idea of the armadillo basket.

While the Apelt Armadillo Farm raises quite a few armadillos for basket-making purposes, scores of hunters roam the

hill country during the times the ant eaters are known to emerge from their subterranean homes in nightly search of provender. Dogs run the "varmints" down, but, because of muzzles, cannot injure them. The hunter grabs the animal by the tail; strikes him across the breast with a stick, inflicting a death blow that leaves the shell unbroken. The carcass is then skilfully removed from the shell and the shell is ready for cleaning.

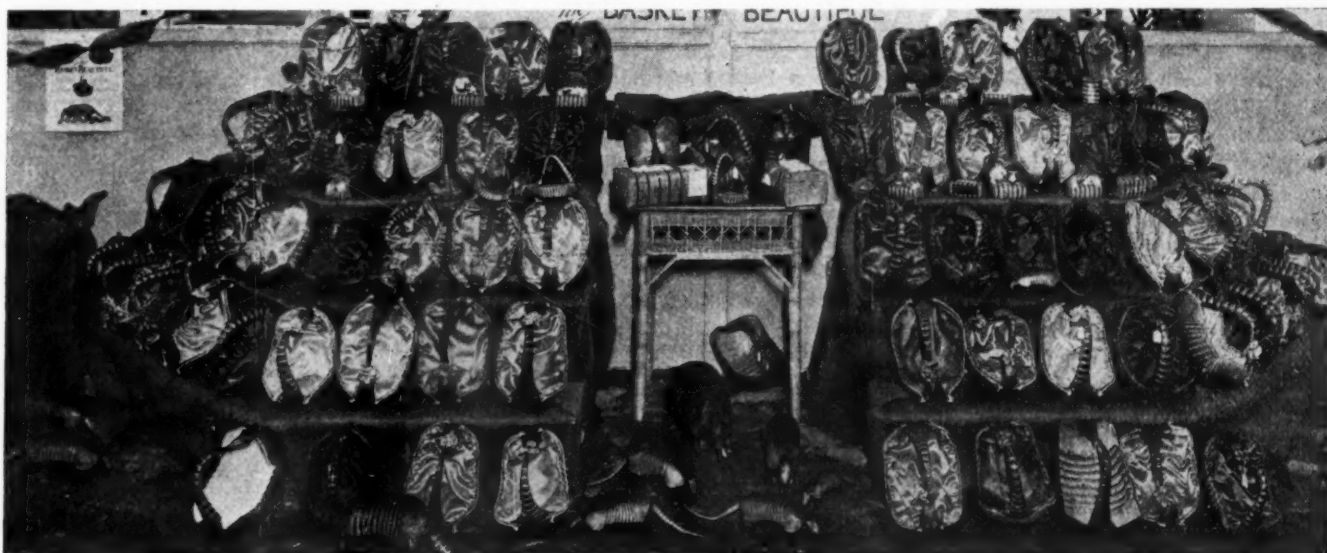
Some fifty men and women are engaged in cleaning, curing, shaping, dressing, polishing and adorning these armored shells. Brightly colored silks are sewed in as attractive linings and other embellishments used to conceal the places where the tails and snouts are connected to form the handles for the baskets. And, presto, there are flower baskets, sewing



STUFFED ARMADILLOS—A MOTHER AND FOUR YOUNG ONES.

baskets, fruit baskets, the entire basic material of which is the unbreakable, unusual, curiously appealing shell of an animal.

To place upon the market this unique product, essentially a luxury, with its greatest appeal that of a gift, created a task in merchandising in the beginning, but the task was met. United States troops of National Guardsmen, on the Rio Grande in 1916, gave Mr. Apelt his first big impetus in sales following eight years of slow and steady growth. But systematic, scientific advertising and merchandising has brought the great bulk of his orders. The business continues the only one of its kind in existence.



BOOTH AT TEXAS STATE FAIR, SHOWING A NUMBER OF SHELLS MADE UP INTO BASKETS.

### "The Stroke of the Moment."

Designed "to help to bring about a better understanding between the people of the United States and the people of Europe—England included"—and so to help to bring about "improved conditions of prosperity for all concerned," a book of real value, "The Stroke of the Moment," comes from the press of the J. B. Lippincott Company, Philadelphia, Pa. Actually, the book is a discussion of the question of the Allies' war debt to the United States and is composed of articles, interviews, statements and other utterances of many worthwhile persons, edited by Oswald Chew, who also edited "France Courageous and Indomitable."

The chapters consist of sundry articles by such Americans as Ambassador Myron T. Herrick, Representative A. Piatt Andrew of Massachusetts, successor to the late Representative A. P. Gardner, "Father of the Preparedness Movement"; Newton Diehl Baker, Secretary of War under President Wilson; Major General John F. O'Ryan, beloved of the American Expeditionary Force; Colonel J. R. Procter, Herbert W. Bowen, Francis W. Peabody, Owen Wister and Emily Stone Whiteley. Foreign viewpoints are presented by Andre Geraud, Madame Helen Parodi, wife of the Director of Public Instruction in France; Andre Tardieu, former French High Commissioner to the United States; Right Honorable Philip Snowden and Henri Michel.

On the other side of the question is printed a statement by Secretary Mellon of the Treasury, March 28, 1927, which may be summarized in his own words:

"Admitting, of course, that the Congressional debates indicate clearly that the Congress was quite willing to loan this money, even on the assumption that there was a considerable element of risk in so far as ultimate recovery was concerned, nevertheless the record indicates beyond dispute that these were loans and not contributions and, though not in form, in actual effect loans from individual American citizens, rather than contributions from the treasury of the United States. \* \* \* To ask a debtor nation to pay substantially less than it is able without undue burden on its people is to do an injustice to our own taxpayers."

"In a just settlement of the present war debts, there are certain important factors which have not been taken sufficiently into account," says Mr. Chew in the opening chapter, "A Joint Transaction," and adds: "It would seem in all fairness that the nations who took part in the war and whose countries suffered little or no devastation, owing to the fact that the war was not fought on their soil, should also bear a commensurate share of the damage which was caused in the pursuit of an object common to all the allied and associated nations, namely, the defeat of the enemy."

Along another line, Colonel Procter corrects a grave and widespread misunderstanding, and in answer to a letter by Miss Eleanor Tuttle in the New York Herald Tribune, August 4, says:

"Miss Tuttle asks the question: 'Was it not expressly understood when the loan was made that the United States Government would redeem the (Liberty loan) bonds when the Allies paid the debt?'"

"Answer: It was not. \* \* \* Those bonds are being redeemed, and will continue to be redeemed, regardless of any collections from abroad."

"We cannot speak of our 60,000 dead of the World War with too much reverence, but we should not make of that sacrifice a boast of the measure of our contribution," said General O'Ryan in an address on Memorial Day, 1926, at Mount Kisco, N. Y., and continued:

"Who cared about money in those momentous days? We spent money freely and we loaned it freely to our Allies. It went into the common pot of sacrifices and endeavor. But, it was no substitute for the lives of those French and British boys who died that our boys might train in security. French

and British families of the dead don't think so. Neither do you.

"But, now it turns out that we did not put these moneys, or any part of them, into the pot. We want back our money—all of it—and with interest. We stand upon the fact that technically the moneys were loaned and must be repaid. The war is over. We won. Back to business. Let Congress mop up the aftermath."

"Is this attitude right? Is it sportsmanlike? Isn't it our duty to acquaint ourselves with such facts as I have mentioned? Americans believe in the 'square deal.' We invented the term."

Rather on the other side of the question, Captain Edward T. Witherspoon, U. S. N., retired, argues that the United States had no "common cause" with the Allies further than "a common desire to lick the Kaiser." In other words, he says that "the Allies were in their war for certain reasons and causes of their own and later on we were forced to declare war for an absolutely different cause"—to protect the right of Americans to sail the high seas. "If these debts are finally partially canceled (and that in reality has been done already) let us do it in frankness and honesty and not on a false ground," says Captain Witherspoon.

No mean word is uttered by any of the foreign men and women quoted in the book, or any plea for charity—merely a plea for fair play from the United States, in whose spirit and practice of fair play they ever have had firm confidence.

The book is a remarkable and valuable compilation of arguments on the Allies' war debts. Copies may be obtained at \$3 each from Oswald Chew, Marion, Mass., who has published the book at his own expense, without consideration of either profit or loss to himself.

### \$500,000 Contract for Greensboro Church.

Greensboro, N. C.—General contract for the erection of the new church and Sunday school building here for the First Presbyterian Church has been awarded to Walter Kidde & Co., Inc., of this city, at an approximate cost of \$500,000. The building will be of reinforced concrete and structural steel, with brick walls, stone trim, concrete and wood floors and composition roof. It will be equipped with steel sash and steam heat. Plumbing contract has been awarded to Hunt Brothers and electrical work to Michael & Bivens, both of Greensboro. Heating contract has not been awarded. Hobart Upjohn of New York is architect for the building and Harry Barton, Greensboro, associate architect. J. A. Matheson is chairman of the building committee.

### To Manufacture Substitute for Gasoline.

Kenova, W. Va.—A new company will be organized here for the manufacture of a substitute for gasoline. Composed principally of Kenova men, the new organization will occupy a building formerly used by the High Grade Oil Company. Dr. W. S. Rosenheim, industrial director of the Huntington Chamber of Commerce, assisted Kenova interests in securing the enterprise. L. O. Osborne of Huntington, W. Va., is said to be interested in the project.

### Loan Association Capitalized at \$5,000,000.

Amarillo, Texas.—The Federal Building and Loan Association of Amarillo has filed its charter in the office of the Secretary of State at Austin. The company has an authorized capital stock of \$5,000,000 and its incorporators include C. J. Blackburn, H. W. Blackburn and P. A. H. Blackburn.

### Concrete Steel Institute Meets at Biloxi.

The Concrete Reinforcing Steel Institute, Chicago, will hold its fourth annual meeting at the Edgewater Gulf Hotel, Biloxi, Miss., March 19-21.



## NEWS AND VIEWS FROM OUR READERS

[Publication in this department of letters from our readers does not mean that we either approve or disapprove the views expressed. We believe in a full and frank discussion of the mighty questions of the hour, for only in this way can the truth be found. Therefore, we often publish letters with which we do not agree.—Editor *Manufacturers Record*.]

### A Texan Makes Suggestion to the Knights of Columbus.

ED. C. BURRIS, Secretary, Chamber of Commerce, Jasper, Tex.

I read with interest the article in a recent issue by James H. Glennon of Mobile, Ala., in which he gave the attitude of the Knights of Columbus toward the "Red Peril." I wish in the beginning to congratulate Mr. Glennon and the K. of C. for the great work they have done in attempting to oust the undesirable propaganda that is now being circulated through this country. But when I read his article in which he referred to the Daughters of the American Revolution and other patriotic societies as "so-called patriots," the effects of his article were lost and my admiration for him and his organization almost ceased.

It appears to me, and I believe I'm right, that the Knights of Columbus are endeavoring to get favorable publicity through the *MANUFACTURERS RECORD* and other great papers of the South by crediting themselves with starting this movement, in which we are also vitally interested. The intensity of their patriotism is not doubted. We know that some of the greatest citizens this nation ever had were Roman Catholics, and we do not doubt the sincerity of those of lesser fame who are members of that great Church; but I personally do feel that the article written by Mr. Glennon will lessen, rather than increase, the respect for his organization in the public eye.

If the K. of C. are as sincere in their opposition to the "Red Peril" as Mr. Glennon infers, why did they not join the patriotic organizations of this country in which the vast hordes of people did have faith, and wage their campaign through them? To which are they the most patriotic the Church (Roman Catholic) or the Nation? Are they really trying to rid the Nation of the enemies of democracy? or, are they attempting to gain publicity and friends for the Roman Catholic Church through the support of this great cause?

The Daughters of the American Revolution do not, so far as I know, prohibit anyone from becoming a member and a worker in that organization because of their religious affiliations. I believe I am also correct in saying that every other patriotic organization in the Nation is likewise open to any believer in God; so, why do not the Roman Catholics of America, like other denominations, cast their lot with their brother Americans in this great cause and cease attempting to bring credit to their Church through the efforts of their subsidiary organization, the Knights of Columbus? If the Knights of Columbus wish to pose as the most patriotic organization in the country, why do they not open their door to the friends of democracy, regardless of religious creed, and ask them to become members? How are we Protestants to know the sincerity of their actions, when those actions are planned behind closed doors? It is not human nature to have faith in, and support, movements that are planned in secret.

I am a strong believer in religious toleration. I believe that every man should, as the Constitution reads, "Worship God according to the dictates of his conscience"; but I do not believe that any man should endeavor to use the faith that we, lovers of democracy, in this great Nation to mold a feeling of friendship and admiration for his church.

What is the issue that is now confronting the Nation? Is it a question of who is to receive the credit for ousting the

"Red Peril" or is it the ousting of this destructive organism? If the Knights of Columbus are as sincere as Mr. Glennon asserts, let them, then, forget their religious faith in this great fight, and join with other patriotic Americans in furthering this great cause.

[If Mr. Burris' view is correct, would it not be well for him to take the same position as to the Ku Klux Klan and its secret activities?—Editor *MANUFACTURERS RECORD*.]

### Suggests Using a Fraction of Florida's Gasoline Tax for Development of Air Fields in the State.

R. M. DAVIDSON, City Manager, City of Coral Gables, Fla.

The State of Florida collects a tax of five cents per gallon on all gasoline sold in the State. This amounts, approximately, to eleven or twelve million dollars a year. Four cents of this tax is used in highway construction.

It is the purpose of the Greater Miami Airport Association to make an effort to have one-half cent of this tax diverted for use in developing air fields throughout the State. Obviously, there are many counties unable to raise money for such purposes and a State appropriation as suggested would greatly hasten the progress and development of air transportation in Florida.

The State has reached advanced stages in its highway development and without handicapping this work could easily divert part of the funds to the now urgent necessity of encouraging and providing facilities for air transportation. Air ports for the larger cities are of little use unless immediate emergency fields are provided. We want Florida to take the lead in this respect.

### Judge Chidsey Warns the Nation.

CHARLES E. CHIDSEY, Pascagoula, Miss.

Permit me to add my voice to that of Mr. Aldehoff in the *MANUFACTURERS RECORD*, warning America of "another world war in the offing." Mr. Aldehoff understates, rather than overstates, the danger. As long ago as 1918, through the columns of the *MANUFACTURERS RECORD*, I warned the people of the United States of the danger of Orientalism through "Bolshevism" that threatened to inundate America—of course, I was only laughed at.

I think, however, that Mr. Aldehoff takes too narrow a view of the situation when he confines the menace of Asia to the Anglo-Saxon only—it seems to me that the menace is to the Latin as well as to the Teutonic races, and the menace of a common danger should make these people form an alliance.

The Russian, while in Europe, is neither a Teuton nor a Latin; he is a Kalmuck, that is, a Mongol, of which the Chinese and Japanese are offshoots. So are the Finn, the Hun and the Bohemian peoples. In 1905, during the Boxer uprising, in a short article to the *Pascagoula Chronicle*, I recounted the past inroads of the Mongols upon the West and warned the people lest they again would have to resist a Mongol tidal wave. My communication was read only by the editor and "the devil," who said it was "purty good."

I am glad Mr. Aldehoff has spoken and awakened an interest in this important matter; but, doubtless, he will be told, "Don't worry—your Uncle Sammy can lick all of creation with one hand tied behind him."

# IRON, STEEL AND METAL MARKET

## Pittsburgh Steel Market.

Pittsburgh, December 24—[Special.]—The steel trade is having a steadier year-end than would have been expected from conditions existing a few weeks ago, as a tapering off is not unnatural. Mill operations have been reinforced by heavier production of rails, by there being some special orders for large lots of line pipe for natural gas and oil lines, and by there having been unusually heavy contract specifications for bars, shapes and plates, due to these contracts being at lower prices than the 1.80 cents price that has prevailed in making contracts for the first quarter of the new year.

### Steel Production to Increase.

That there will be a large increase in the rate of steel production in the first three months of the new year is certain. This is the normal seasonal swing, as shown by precedents for five years past, and visible prospects of heavier requirements in several lines of consumption are in the same direction. This seasonal swing as shown in the records of the past four years is a curious one, in that December production of steel has varied widely, while each March in four successive years has run almost exactly the same, with a daily rate of steel ingot production falling within the narrow limits of 161,000 and 168,000 tons. A rate next March in excess of 160,000 tons is thus plainly in prospect. That would make an increase of about one-third over the recent rate. This would not in itself indicate that 1928 will be uniformly active, as declining production after a March peak has been the rule.

It is the prevalent opinion, however, that 1928 will be the most active year, in point of tonnage, in the record of the steel industry. No such view was held a year ago, it being a rather common view that 1927 would be slightly off in tonnage. So it has been, but only by 7 to 8 per cent.

The steel consuming lines have not run together in the past three years in point of activity. Railroad rolling stock had its greatest activity in 1925, with successive decreases in the next two years. Fabricated structural steel was heaviest in 1925, with a drop for 1926 and a gain for 1927 to nearly if not quite the 1925 level. Oil and gas field consumption of tubular goods was heavy in 1925, slightly heavier still in 1926, and far off in 1927. Automobile production increased slightly from 1925 to 1926 and slumped for 1927. The agricultural implement industry gained from 1925 to 1926 and then gained still more for 1927. Thus each of the past three years was the best for one line or another. These divergences kept the total tonnage of steel quite steady, 1926 being 7 to 8 per cent above 1925 and 1927 being 1 to 2 per cent below 1925.

It may easily occur that all the lines mentioned above will have a still better year in 1928, with the exception of oil and gas well drilling.

### Rolling Stock Inquiries.

Inquiry for freight cars is quite active now, particularly by Western roads, and a spell of several months of rather heavy buying is expected, after six months of almost no buying of rolling stock. The automobile industry has only slightly increased its steel buying thus far, but is expected to be very active in the next few months. Farm implement works have promise of continued high activity for several months.

Bars, shapes and plates are now well stabilized in prices, with the Pittsburgh and Chicago markets firm for some time and the new Eastern price basing set up by the Bethlehem Steel Company, December 8, apparently well established. Tubular goods are perfectly steady. Strips continue irregu-

lar. Sheet prices are being advanced from time to time by various mills, but sales are first made at the old prices, even through the first quarter.

## Birmingham Iron Market.

Birmingham, Ala., December 27—[Special.]—Almost to the last day of the year there will be active delivery of pig-iron by the Alabama furnace interests on contracts for foundry iron booked during the past several weeks. The surplus foundry stock should show reduction as of three months ago when 20 per cent increase was noted as compared to the tonnage on hand at the first of the year. Car and 100 tons lots of iron will probably continue moving through the entire week. No mention of price base has been heard recently save the \$16 per ton, No. 2 foundry, base for this year's requirements. Intimation is again to be heard that the 1928 price base will start at \$17 but no formal announcement is given out.

### Production Steady.

For the time being there is to be no change in the steady production of pig-iron. Upwards of 200,000 tons is looked for as the make for December. This will bring the annual tonnage to but a small difference in comparison with the production of last year. Survey of conditions with the melters of pig-iron would indicate that the coming year holds out bright prospects. Cast iron pressure pipe makers received some fairly good orders recently and will go through the winter with active production, not very much under conditions of a year ago. Many of the foundries and machine shops are feeling more optimistic, while several specialty shops in the district have received intimation of considerable business.

Inventory time next week will show more iron on melters yards than at any time in 12 months.

### Orders for Steel.

Additional steel orders are reported, the year closing with unfilled tonnages much greater than three months ago. It is not believed there is more steel tonnage to be filled on the turn of the year than this time last year; steady operation is seen for several weeks ahead and additional business is in sight. Railroads have placed a fairly good proportion of their orders here.

Tank producers in the face of further development in oil fields are looking forward to more business. Several good sized orders were placed here in the last 30 days and these are being completed now with promise of more business being extended.

Cold weather has had a tendency to bring about healthy demand for domestic coal. Steam coal is moving right along though not in unprecedented quantity. The coke market is firm. Foundry coke holds to the \$5 per ton price base with the product moving to larger centers where it is used as fuel.

The scrap iron and steel market has not improved much for several months.

Quotations for pig-iron and iron and steel scrap follow:

### PIG-IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$16.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$16.50; iron of 2.75 to 3.25 per cent silicon, \$17.00; iron of 3.25 to 3.75 per cent silicon, \$17.50; charcoal iron, f. o. b. furnace, \$29.00.

### OLD MATERIAL.

Old steel axles .....	\$16.00 to \$17.00
Old iron axles .....	16.00 to 17.00
Old steel rails .....	11.50 to 12.00
Heavy melting steel.....	10.50 to 10.75
No. 1 cast.....	14.00 to 14.50
Stove plate .....	13.00 to 14.00
N. 1 railroad wrought.....	11.50 to 12.00
Old car wheels .....	14.00 to 15.00
Old tramcar wheels .....	14.50 to 15.00
Machine-shop turnings .....	8.00 to 9.00
Cast-iron borings .....	8.00 to 9.00
Cast-iron borings (Chem.).....	13.00 to 13.50



### The Metal Market.

New York, December 27—[Special.]—The only activity in markets related to the non-ferrous metals is on the New York Stock Exchange where the metal shares have been in big demand at higher prices. The rise is belated recognition of the better position of the metal industry. When the price of copper was advancing rapidly a month ago those close to the metal industry were quietly picking up metal shares. Now the general investing public has become aware of the better values of these shares.

Metal sellers expected that the past week would be the most quiet one of the year and in this they were not disappointed. They are satisfied if prices merely hold to previous levels. Again they are not disappointed except in the case of zinc which has continued its decline of recent weeks, the price being back to the low level of the year of 5.60 cents per pound, East St. Louis.

#### Copper Holds Up Well.

The manner in which copper has held during the past few days has been remarkable. The price had advanced one cent per pound during November and early December, and hence a sharp reaction at this time would not have been surprising. However, the reaction to date has been  $\frac{1}{8}$  to  $\frac{1}{4}$  cent per pound. Copper had reached a maximum quotation of 14 $\frac{1}{4}$  cents per pound, though very few sales had been made at that figure. Toward the close of the week custom smelters were selling at 14 cents, though leading producers were still holding to 14 $\frac{1}{4}$  cents.

It is expected that purchasing of the metals on a large scale will be resumed in January earlier than usual because of the low stocks in hands of consumers. Many expect that by January 15 active movement of the metals will be under way. Automobile production will be close to maximum by February, according to best opinion, meaning the consumption of large quantities of copper, tin and lead.

Interesting readjustments in the uses of the metals are constantly under way. For instance, the Christmas sales of radio equipment have revealed the gradual passing of the storage battery in favor of the all-electric set or the battery eliminator. In other words, less lead and more copper is being used in the radio industry.

#### No Light in Zinc.

The zinc producers do not yet see any light from the depressed conditions in their industry. For the first time in several weeks the ore sales in the tri-State district balanced the production, yet here was a special circumstance which made the figures unrepresentative. In other words, the producers were selling ore at a sacrifice in Oklahoma because of a State tax of about \$3 per ton on all unsold ore in the bins. The ore price has been marked down \$1 per ton, to \$36. It is now but \$1 per ton above the low level of the year.

Tin broke lower than accustomed levels during the week when Straits tin sold at 58 cents per pound, which was  $\frac{1}{2}$  cent per pound under the previous minimum. However, when the price steadied at that figure consumers became attracted and bought in fair abundance, forcing the price higher.

The export price of copper was kept intact at 14 $\frac{1}{2}$  cents per pound, c. i. f. European ports. Sales for export were slightly better than for domestic consumption, yet the market was dead by comparison with a month ago. Germany has been consuming about 20,000 tons of copper monthly, compared with 10,000 per month last year. The consumption by the other European countries has been about the same as last year.

Lead was slightly more active than during the preceding week. The large producers held prices at 6 $\frac{1}{4}$  cents, New York, and 6.35 cents, East St. Louis, though in the latter center there was some shading by 2 $\frac{1}{2}$  to 5 points.

## RAILROADS

### New Equipment.

Pennsylvania Railroad, according to a press report from Philadelphia, has sent out inquiries to builders for a total of nearly 700 passenger train cars, including day coaches, baggage cars, etc. It is estimated that the total cost will be from \$10,000,000 to \$12,000,000.

Gulf, Mobile and Northern Railroad is having three all-steel passenger cars, 70 feet long, and three combination mail and baggage cars of the same size, built by the American Car and Foundry Company, Jeffersonville, Ind., to be delivered in the spring. The company recently ordered two Pacific type locomotives from the Baldwin Works, Philadelphia, Pa.

Mobile and Ohio Railroad is reported in the market for eight switching locomotives of the six-wheel type and five Mikado type locomotives; also for 250 box cars of 40 tons capacity, 250 double drop bottom steel frame gondola cars of 50 tons capacity and 200 steel underframe flat cars of 50 tons capacity, besides six steel passenger cars, three of them with partition.

Alabama, Tennessee and Northern Railway is reported to have ordered two locomotives of the Decapod type from the Baldwin Works.

### Weekly Report of Freight Loadings.

Loading of revenue freight for the week ended on December 10 totaled 877,600 cars, according to reports filed by the railroads with the Car Service Division of the American Railway Association. This was a decrease of 40,637 cars below the preceding week this year when 918,237 cars were loaded instead of 915,408 as originally reported. The difference is due to a correction made by one road in its report for that week. The total for the week of December 10 was a decrease of 114,855 cars under the same week last year and 131,096 cars below the same week in 1925. Since January 1 last there have been 50,077,882 cars loaded with revenue freight, which compares with 51,393,662 cars loaded during the corresponding period of 1926 and with 49,553,353 cars loaded in the same week of 1925.

### \$10,000,000 for Public Service in Texas.

According to a press report from Houston, Texas, quoting Walter H. Burke, southwestern manager for Stone & Webster, \$10,000,000 will be expended in several Texas cities during 1928 for public utilities development. More than \$1,000,000 will be spent in Houston, while Beaumont, Galveston, El Paso and Fort Worth will also share largely in the improvement program. About \$3,000,000 will be spent at Beaumont and another \$1,000,000 will represent improvements to be made in adjacent Texas and Louisiana territory. Perhaps the total in that region will reach nearly, if not quite, \$5,000,000. In other sections much money will be used for extending motor-bus service.

### A Handsome Railroad Calendar.

The Pennsylvania Railroad has issued an unusually handsome wall calendar, with a large picture in colors, entitled "When the Broad Way Meets the Dawn." This reference and picture of the Broad Way Limited on the calendar is accompanied by mention of the Liberty Limited and the American, other well-known and finely equipped trains of the Pennsylvania System.

### Traffic Manager Appointed.

C. S. Fay, traffic manager of the Louisiana Lines of the Southern Pacific System, has—according to a press report from New York quoting an announcement from the general offices there—been appointed traffic manager of the Texas Lines of the system to succeed C. K. Dunlap, who has resigned after 40 years of service with the company. He has been traffic manager for 20 years. Mr. Fay's new office is at Houston. The Louisiana office is at New Orleans.

### Freight Rates and the Wheat Crop.

Freight rates do not to any marked degree affect prices received by the farmer for wheat, according to a study by the Bureau of Railway Economics as to the relationship of wheat prices to transportation costs. The bulletin covers primarily the 1926-27 wheat crop. The information regarding prices paid to farmers was obtained from country elevators, and shippers or farmers at representative origin points throughout the principal wheat producing sections of the United States.

### Baltimore and Ohio Magazine for December.

The Baltimore and Ohio Magazine for December, 1927, has a handsome picture in colors on its front-cover page which represents the completion of the Main Line to the Ohio River on Christmas Eve, 1852, when the two ends of the line of rails were joined at Roseby's Rock, W. Va. Another feature of the book is a page full of pictures of some of those who helped in the Centenary Exhibition and Pageant which was held at Halethorpe, Md., during the autumn. Four pages of likenesses of prominent people who visited the exhibition are also given. There are many other excellent contributions to the number, all of them of lively interest.

### Asparagus Growing in Georgia.

The industrial department of the Georgia and Florida Railroad, according to a press dispatch, has made plans to promote asparagus growing in the southern part of Georgia. At the request of H. W. Purvis, president of the line, Augusta, Ga., W. E. French, the general industrial agent, made an investigation and report of the possibilities of asparagus culture in that section, saying that asparagus is a profitable crop and also a safe one and quoting the "yield per acre from \$150 to \$300" and the cost of production low. It is further remarked that cultivation of asparagus would enable the farmers to practice diversified farming at increased profit. It is also noted that several years ago this railroad company was among the first to promote the cultivation of tobacco in the southern part of Georgia.

### Christmas Celebration on Fast Trains.

Observing its one hundred and first Christmas and the seventy-fifth anniversary of its completion to the Ohio River, when the track was finished at Roseby's Rock, W. Va., Christmas Eve, 1852, the Baltimore and Ohio Railroad this season supplemented the customary Christmas trees on the Capitol Limited, the National Limited and the Fort Pitt Limited, with afternoon and evening Orthophonic Victrola concerts on Christmas Eve and Christmas Day. The musical program included well-known Yuletide hymns and carols. Printed copies were distributed among the passengers and the concerts were held in the observation cars, in the lounge compartment of which were the Christmas trees, decorated and illuminated. Toys and candy were given to children on board and the train secretaries played Santa Claus.

## TEXTILE

### Textile Consolidation to Embrace 150 Plants and About 1,500,000 Spindles.

A sufficient number of mills have agreed to enter the proposed yarn mill merger being promoted by Flint & Co., Inc., and the Farish Company, both of New York, and A. E. Ledyard of Montgomery, Ala., as to justify the employment of engineers to make final appraisals of the mill properties, according to a recent statement in Charlotte, N. C., by F. L. Walton, vice-president of the Farish Company. Robert & Co., Inc., of Atlanta have been engaged to handle these final details and will use several engineering groups with a view to completing the appraisal work as soon as possible.

As previously outlined, the proposed consolidation will affect approximately 150 mills in North Carolina, South Carolina, Georgia, Alabama and Tennessee, representing about 1,500,000 spindles. Mr. Ledyard expects to complete the preliminary inspection of plants within a short time. Only such mills are scheduled for appraisal as have agreed to an option price per spindle, it is said, and only such mills have been selected which show good physical condition and may be operated on an efficient basis.

### Converting Yarn Products Mill.

The Avondale Mills of Birmingham, Ala., advise that they are changing a yarn products mill into a woven products plant at Mignon, Ala., which is the company's mill town adjoining Sylacauga, Ala. Looms have been purchased from the Crompton and Knowles Loom Works, Worcester, Mass.; electrical equipment from Fairbanks, Morse & Co., Chicago, and nappers from the Woonsocket Napping Machinery Company of Woonsocket, Mass.

The Avondale Mills, controlled by the Comer interests, own and operate the Catherine Mills, Central Mills, Eva Jane Mill and Sally B. Mills, all at Sylacauga.

### Plans Big Rayon Plant in South.

F. C. Niederhauser, vice-president of the Industrial Rayon Corporation, New York, and secretary of the Industrial Fiber Company, Inc., of Cleveland, Ohio, advises that nothing definite has been determined with reference to building a rayon plant in North Carolina, recent reports stating that the mill would cost \$4,000,000. Mr. Niederhauser states that his company has investigated the South and expects to build some time in the spring, but that a location for the plant has not yet been selected. Three or four locations are under consideration and a selection may be made within 30 days. J. E. Sirlrine & Co. of Greenville, S. C., are the engineers.

### Contract for Chatham Mill Addition.

The Chatham Manufacturing Company, Winston-Salem, N. C., advises that it has awarded contract to T. C. Thompson & Brothers, Charlotte, for the erection of an addition to its mill at Elkin, N. C. The extension will be three stories, 112 by 160 feet, for which Lockwood, Greene & Co. of Charlotte are the engineers. The present mill is equipped with 24 sets of cards, 235 broad looms, 10,000 mule spindles, 6200 ring spindles, 2400 twister spindles, one garnett, three pickers, bleaching, dyeing and finishing departments for the production of wool and wool mixed blankets.



## GOOD ROADS AND STREETS

### Tennessee Road Contracts Approximate \$3,850,000—Next Award to Be Made January 18.

Nashville, Tenn.—Contracts have been awarded by the State Highway Department for 25 road and bridge projects, which will involve construction to cost approximately \$3,850,000. The work will embrace 154 miles and will represent the last awards to be made this year, bringing the total mileage let to contract during the year to nearly 500 and involving a cost of about \$14,000,000. This is the Department's annual construction program exclusive of force account work.

Commissioner C. N. Bass announces that the next sizeable letting will take place in March, but that an intermediate letting will be held on January 18. Among other work to be awarded will be a large bridge over the Tennessee River at Perryville, smaller bridges in Montgomery and Humphreys counties and paving projects in Hamilton, Madison and Carroll counties.

### To Produce Limestone for Road Construction.

Columbus, Ga.—A large plant for quarrying and crushing limerock for road building purposes is being established near Perry, in Houston county, by the Dixie Products Company, under the name of the Georgia Limerock Company.

The announcement of this industry followed the purchase of more than 300 acres of land lying about three miles south of Perry. It is stated that the initial output of the plant will be 40 carloads daily, and that it will be in operation within the next two months.

Engineers of the Central of Georgia Railway have surveyed for an extension from Perry to the plant, and the construction of this line will begin immediately. The work of clearing the grounds preparatory to constructing buildings and installing machinery is under way. Several carloads of machinery, including a large steam-shovel, have arrived at Perry and have been transported to the site of the new plant.

### Highway Engineering Bureau Organized.

Washington, D. C.—Organization of the Highway Engineering Bureau, with offices in the National Press Building in this city, has been announced by officials of the organization. The bureau is composed of eleven prominent engineers and will function as a consulting and advisory organization for every phase of the highway, transportation and associated industries. Charles M. Upham, managing director of the American Road Builders' Association, has been elected president of the new organization, and Fred E. Schnepfe, vice-president. Advisory engineers include: Albert T. Goldbeck, Prevost Hubbard, Maurice Holland, Fred A. Reimer, Henry G. Shirley, Earl Stafford, William A. Van Duzer, Dr. J. A. Waddell and Shortridge Hardesty.

### Missouri to Ask Bids on \$1,248,000 Highway.

Jefferson City, Mo.—Plans are being made by the State Highway Commission for awarding contracts for more than one-half of the reconstruction of United States highway No. 61, through Scott and New Madrid counties, following the selection by the commission of the east route for relocation. Bids are expected to be received in January for approximately 36 miles of the east route, between Sikeston and Portageville, to be of concrete, and estimated by engineers to cost \$1,248,000. The entire east route of approximately 61 miles was estimated to cost \$2,233,986.

### Mississippi County Asks Bids on Seven Miles.

Ripley, Miss.—Bids will be received until January 3 by the Commissioners of Separate Road District No. 1 of Supervisor's District No. 1, Tippah county, for the construction for approximately seven miles of the Ripley North road from the First District line at Turkey Creek to the Tennessee State line. Plans and specifications are on file at the office of the Chancery Clerk, this city.

### Texas County Plans Highway Bond Issue.

Lubbock, Texas.—At a recent meeting here presided over by Jed A. Rix, chairman of the good roads committee of the Lubbock Chamber of Commerce, a resolution was adopted to call an election soon after the first of next year on a county-wide bond issue for the construction of hard-surfaced roads. A date for the election was not set, because of lack of an agreement on a highway routing.

### Louisville Sells \$500,000 Grade Elimination Bonds at Premium of \$26,803.

Louisville, Ky.—Bonds in the amount of \$500,000 for the elimination of grade crossings have been sold by the city of Louisville to E. W. Hays & Co., Louisville, and Caldwell & Co., Nashville, Tenn., at a premium of \$26,803. This price will yield the purchasers an interest rate of 3.73 per cent. The bonds are the first block of a \$5,000,000 issue authorized in 1924, the sale being made to pay the city's portion of the first project undertaken, that of constructing an underpass at 4th and G streets.

### Jefferson County Asks Bids on 32 Miles Roads.

Birmingham, Ala.—Bids for the construction of 32.25 miles of concrete or bituminous roads have been invited by the Board of Revenue of Jefferson County, estimates to be received until January 3. The work is embraced in nine projects, the largest of which covers 15 miles of the Bankhead Highway from the end of the present paving near Adamsville, north to the county line. Other important projects include one of 6.25 miles of the Mt. Pinson road from the end of the present paving to Mt. Pinson, and another of 5 miles of the Hueytown Loop road from Bessemer to Hueytown lane. Plans and specifications are on file at the office of C. J. Rogers, county highway engineer.

### \$350,000 Highway Building Under Way.

A contract has been awarded by the State Highway Commission, T. H. Cutler, chief engineer, Jefferson City, Mo., to the Joseph Pope Construction Company of Jefferson City, for clearing the site of the proposed \$350,000 office building for the Highway Department. Egerton Swartwout of New York, architect for the building, advises that it will be three stories and basement, 63 by 114 feet with a one-story and basement extension, 63 by 25 feet. The exterior will be of Missouri or Indiana limestone and the interior will be partitioned with steel. The building will be served by an electric elevator. Plans and specifications for the structure may be obtained from Mr. Cutler.

E. A. Lindsey, of Newton, Tex., advises that a Newton County road bond issues of \$250,000 to bear an interest rate of 5½ per cent has been sold to H. C. Burt, Houston, Tex., at 95.02.

## NEW AND IMPROVED EQUIPMENT

### Concrete Mixer Crew's Speed Record.

A remarkable record for mixing concrete is being made by a crew of four men mixing concrete for the new Miliner's Building in Chicago. Using a  $\frac{3}{4}$ -yard Marsh-Capron mixer this crew is turning out 240 yards of concrete in an eight-hour day, and so easily they could increase this total. This amount, however, is just right for one floor of the building which is being put up by the Dilks Construction Company, with the H. A. Dalley Company as sub-contractors for all concrete and monolithic work. Each floor is complete at the end of the day and is covered with sand while preparations go on for pouring the next floor. Thirteen floors and the basement were finished ready for plastering in four weeks' time.

Besides giving full credit to the rapid discharge rate of the Marsh-Capron mixer (15 seconds) and its smooth, dependable action, the superintendent, Harry Grimes, attributes much to excellent organization and an efficient layout. On the mixer proper there are four men. There is also one man in charge of the hoist and fifteen men on the floors spreading the concrete.

In building the layout a platform or runway was constructed, running back from the level at an alley so that trucks carrying sand, gravel and cement can be backed up and unloaded on the platform. In large bins below the platform are stored the sand and the gravel and a chute alongside the runway carries sacks of cement down to the charging platform within easy reach. While the mixer is discharging, the proper quantities of sand and gravel are released from the main bins into batchers ready to be fed into the machine. When ready for another batch the sand and gravel are allowed to enter the common chute feeding the mixer. The flow of the sand and gravel is gauged so that the  $4\frac{1}{4}$  sacks of cement, added one at a time, are pretty well distributed with the sand and gravel as they go into the drum, one minute being given for mixing.

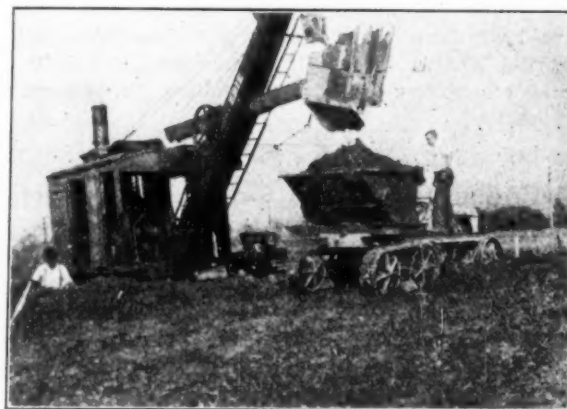
At the discharge end the operator discharges the batch into a wooden chute set at right angles to the discharge spout. One side of the chute being made higher than the other, so that no concrete is lost when the mass is diverted into the hoist bucket, which is below the wooden discharge chute. Consequently, the mix rushes into the bucket fast but nothing

spills. Every hour 40 batches are mixed. The round trip of the hoist bucket is made in very few seconds.

These concrete mixers are made by the Marsh-Capron Company, Chicago, Ill.

### Creeper Truck for Various Jobs.

A new piece of road equipment known as the Law Creeper Truck which has just been placed on the market where it is fast gaining popularity, is described by the builders, the Law Manufacturing Company, 236 West 55th street, New York city, as a combination of tried and proven units. It is powered by the Fordson Tractor, and the creeper wheel is of



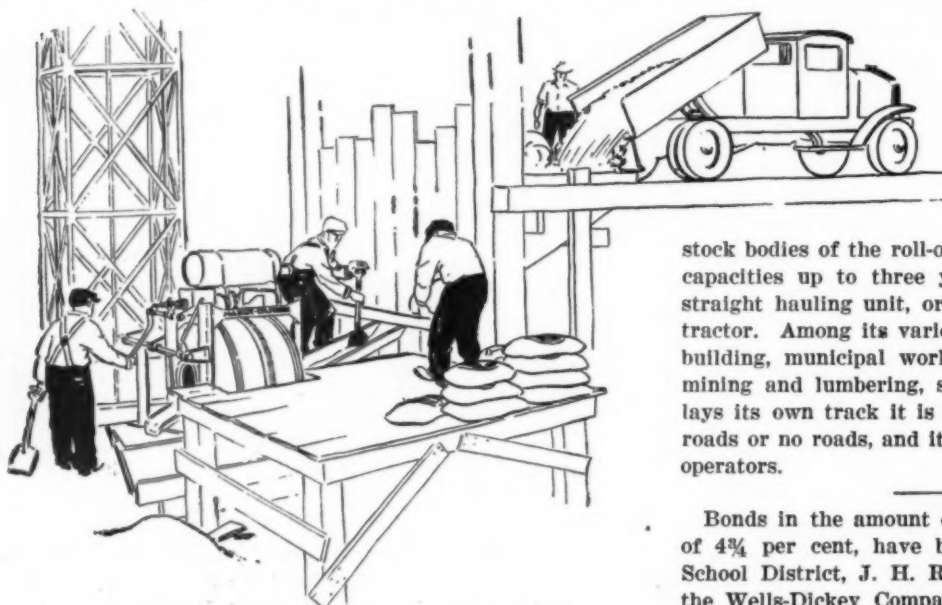
LOADING CREEPER TRUCK WITH SHOVEL.

the rigid, self-supporting type, so designed as to eliminate numerous rollers. Their absence in the creeper wheel means that friction has been reduced to the minimum, the only rollers in this wheel being the Hyatt bearings in the wheel hubs. The creeper track is non-clogging, even in the deepest mud. It is equipped with a pressure lubricating system, and adjustment is effected by means of eccentric bushings.

Although assembled from units, the merits of which had been amply established by a wide range of service in other fields, the company did not accept these units until they had proven their worth as an integral part of the whole truck. Accordingly it was subjected to severe and extensive tests in actual service. Having successfully passed this trying period of tests and demonstrations, the manufacturers are now offering the truck with full confidence that it is not only right mechanically, but that it offers a wide range of usefulness in a new field. It can be equipped with

stock bodies of the roll-over, gravity or power hoist types, in capacities up to three yards. It can be used either as a straight hauling unit, or as a combination hauling unit and tractor. Among its various uses are land development, road building, municipal work, general farming, irrigation work, mining and lumbering, sand gravel and clay pits. Since it lays its own track it is equally at home on good roads, bad roads or no roads, and it is priced within the means of small operators.

Bonds in the amount of \$100,000, bearing an interest rate of 4% per cent, have been sold by the Greenville Graded School District, J. H. Rose, secretary, Greenville, N. C., to the Wells-Dickey Company of Minneapolis, Minn., at a premium of \$3309.



CONCRETE MIXER LAYOUT FOR FAST WORK.



### Improved Gas-Electric Shovel.

In connection with the extensive terminal improvements the Pennsylvania Railroad Company is making in Philadelphia, which will include the removal of the elevated railroad that for nearly 50 years has been used between West Philadelphia and Broad Street Station, and the building of a subway for local electric trains between the new main station at 32d and Market streets and Broad street, a contract has been let for part of the preliminary work of clearing away buildings and opening streets, to the Keystone State Corporation of Philadelphia, a large engineering, contracting and construction organization.

On account of needing small clearances and extreme mobility the contractors decided to use a gas driven excavator on this work if possible. The machine had to be able to handle successfully some very hard digging and large pieces of concrete and brick, which heretofore had been considered a duty too heavy for a gas-driven machine. However, they purchased and are operating very successfully at the present time a Marion Type 7 gasoline-electric shovel, a machine which combines the independence of gasoline as a fuel with the flexibility of the steam machine to meet the service required in this project.

This type of drive for shovel service is not new, but it is interesting to note that on the machines where gasoline or Diesel drive is employed, all mechanical gear shifts are eliminated with a consequent decrease in maintenance costs due to mechanical shocks.

The principle of the gasoline-electric shovel is relatively simple, a gasoline engine being connected directly to an electric generator which supplies power to drive the shovel.



GAS-ELECTRIC SHOVEL ON SUBWAY WORK.

There is no mechanical connection between the engine and any motion and there is a separate motor for the hoist, one for the swing and one for the crowd. Each motor is connected through gears to the motion which it is to drive, thereby following through the principle employed so successfully on the steam machine where a separate geared engine is used to drive each motion. These motors give high speeds at light loads and low speeds at heavy loads, thereby obtaining speed and pull as required and reducing to an extreme the mechanical shocks on the machine.

These machines are built by the Marion Steam Shovel Company of Marion, Ohio.

W. L. Moody, Jr., Galveston, Texas, and associates will soon let the contract for a \$1,000,000 hotel, after plans by Andrew Fraser, Galveston architect.

### A Crane Works As a Fire Fighter.

Much has been written about the wide application and use of mobile truck mounted crane units. But it has remained for Bart J. Ruddy of Whitesboro, N. Y., to uncover a new use for such equipment, by turning his crane unit into a fire fighter. When he made his Mack-mounted Universal Crane work at a burning barn he was able to accomplish in one day



TRUCK CRANE WORKING AT A FIRE.

what the fire departments of three towns were unable to accomplish in six days.

The William Many farm at Whitesboro, N. Y., large hay producers, recently had three large haystacks and a barn full of hay which caught on fire due to unknown causes. The fire departments of Whitesboro, Yorkville and Utica responded to 12 fire alarms, mostly at night, but in spite of their best efforts the smoldering hay continued to burn for six days. The many hose lines of the fire department tied up trolley traffic for four days, also after six days of fire fighting the local water reservoir was becoming rather low.

With the situation rather alarming, one of the fire chiefs noticed Mr. Ruddy's crane digging a trench on a nearby sewer job. With quick visualization he immediately got Mr. Ruddy's crane on to the fire. The large clamshell bucket on the crane rapidly tore the burning stacks to pieces. As the smoldering fires were exposed to air they burst into sudden flame but were quickly extinguished by the firemen. The crane loaded the wet hay onto hay wagons which hauled it to nearly lots where it was thinly spread to prevent further smoldering and burning, and in one day, by using the crane, the firemen were able to extinguish the fire which had already caused a \$10,000 loss.

While this job shows a rather unusual use of a Universal crane, another case recently occurred where one of them again showed its adaptability to disasters and emergencies. The day after the St. Louis sudden tornado, with millions of dollars of wreckage and loss of life, four of these cranes started to work on reclamation and wreckage removal. Later a fifth was added for cleaning up wreckage.

These cranes are made by the Universal Crane Company of Cleveland, Ohio.

### Plans for \$700,000 Office Building.

Midland, Texas.—Plans for the proposed 12-story office building to be erected here by T. S. Hogan at a cost of \$700,000 will be prepared by Wyatt C. Hedrick, Inc., of Fort Worth, according to a recent announcement. The building will be 125 by 75 feet, fireproof, of brick, stone, steel and reinforced concrete. Drawings and specifications will be ready for bids about February 1.

# CONSTRUCTION DEPARTMENT

## EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

The date at the end of an item indicates issue of the Manufacturers Record in which earlier facts about the same enterprise were published.

## DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

### Airports, Airplane Plants, Etc.

Ark., Texarkana—City Council contemplates establishing municipal airport on Bankhead highway; expend about \$35,000. See Financial News—Bond Issues Proposed.

Fla., Daytona Beach—Florida Air Transportation Co., L. B. Bouchelle, Jr., Pres., reported, plans constructing airport, school of aeronautics and handle different types of airplanes and render mechanical service.

Fla., Tampa—City Comm., reported, leased 240 acre site (Drew property) for proposed flying field. 11-10

Ga., Atlanta—Work on Atlanta-New York airway through Richmond, progressing, as reported, by the aeronautical division of the Commerce Dept. The Limestone Products Co. of America, 145 W. 41st St., New York, awarded contract on the Richmond-New York section; Harrison-Wright Co., low bidder on both Atlanta-Spartanburg and Spartanburg-Greensboro sections; and the Wm. E. Arthur Co., Inc., 103 Park Ave., New York, low bidder on Greensboro-Richmond section; John Bonforte, Airways Extension Supt. in charge of inspection work. 12-8

Ga., Augusta—W. W. Jones, 115 7th St., low bidder for erection suitable marker for Daniel Flying Field; Scroggs & Ewing, Archts., Southern Finance Company Bldg. 12-22

N. C., Hickory—Hickory Chamber of Commerce, interested in establishing municipal airport. Chamber of Commerce advises, site not yet selected.

Okla., Enid—Harley Harreld, Chmn. of Airport Committee of Chamber of Commerce, interested in purchasing 100 acres of land for airport, contemplates bond issue. 11-10

S. C., Chesterfield—Chesterfield Aircraft Co., chartered; Dewey Watson, N. P. Watson, M. S. Watson.

S. C., Columbia—City, L. B. Owens, Mayor, reported, contemplates establishing airport; Marvin Porter, City Engr.

Tex., Fort Worth—City, reported, will erect \$19,950 hangar Deatur Rd., frame and steel. Address City Clerk.

Tex., San Antonio—City, reported, plans erecting hangar for use of mail pilots at Winburn Field, 40x60 ft., soon receive bids; plans approved by P. D. Cramer, Dallas, representing Dept. of Commerce. 12-15

### Bridges, Culverts and Viaducts

#### Proposed Construction

Alabama—State Highway Comm. receives bids for 31 bridges and culverts. See Roads, Streets, Paving.

Ark., Fulton—State Highway Comm., Dwight H. Blackwood, Chmn., Little Rock, receives bids Dec. 30 for state-owned toll bridge across Red River, at Fulton, between Hempstead and Miller Counties, Highway No. 67, between Hope and Texarkana, estimated cost \$500,000; Ira G. Hedrick, Inc., Consult. Engrs., 320 Ardis Bldg., Shreveport, La. 10-27

Ark., Texarkana—City plans 3 bridges across Nix's Creek; cost \$24,000. Address City Clk. See Financial News—Bond Issues Proposed.

Ky., Cadiz—Trigg County Bridge Co. purchased franchise to erect toll bridge over Cumberland River at or near Canton.

La., Shreveport—City, L. E. Thomas, Mayor, plans receiving bids soon for Market Street viaduct; Howard, Harrington & Ash, Archts. and Engrs., 1012 Baltimore Ave., Kansas City, Mo., and 55 Liberty St., New York City. 4-7

Md., Baltimore—Public Improvement Comm.

authorized Chas. F. Goob, Ch. Engr., of Baltimore, to request War Dept., Washington, D. C., to approve plans to close upper part Cabin Branch Creek to navigation and construct causeway across it with culvert opening in center; tentative plans by Chas. F. Goob for bridge over Cabin Branch are for bulkhead along northeast side of proposed relocated Pennington Ave. crossing of creek and earth fill to carry roadway, 36 ft. wide; Wm. F. Broening, Mayor. 9-8

Miss., Bay St. Louis—Hancock County Bd. of Supvrs., A. A. Kergosien, Clk., receives bids Jan. 2 to reconstruct Hickory Creek Bridge on Kiln-Nicholson Road; plans on file.

Miss., Louisville—Comms. of Separate Road Dist. No. 1 receive bids Jan. 2 for 3 bridges: Noxubee River Bridge; Town Creek Canal Bridge; Naane-Warrior Bridge; 76,000 ft. B. M. treated timber; 32,720 lb. structural steel; 10,000 lb. reinforcing steel; plans from Chancery Clk.

Miss., Vicksburg—Harry E. Bovay, 1743 N. Parkway, Memphis, Tenn., reported, will let contract Jan. 4 for bridge across Mississippi River at Vicksburg; Harrington, Howard & Ash, Engrs., 1012 Baltimore Ave., Kansas City, Mo. 12-1

Miss., Yazoo City—Yazoo County Board of Supvrs. receives bids Jan. 2 for approaches to bridge under construction on Broad Lake.

S. C., Charleston—Maj. Gen. Edgar Jadwin, Ch. of Engineers, and War Dept., Washington, D. C., will consider plans of Cooper River Bridge Co., Inc., Charles R. Allen, V-P., 148 E. Bay St., for proposed \$4,000,000 bridge over Cooper River, across Drum or Daniel's Islands; bridge to be 12,000 ft. long, 3500 ft. longer than proposed bridge at Market St.; tentative plans for structure provide 2 bridges. From either Sumter or Lee St. bridge rises to 150 ft. and extends to Drum Island; second span will leave island and span west channel; Maj. J. Frank Sullivan, Consult. Engr., New York City. 11-3

Texas—State Highway Comm., R. S. Sterling, Chmn., Austin, receives bids soon for 2 bridges: Mitchell County—499-ft. 6-in. reinforced concrete girder bridge and approaches across Morgan Creek, Highway No. 1, between Westbrook and Colorado, twelve 28-ft. 6-in. spans, three 43-ft. spans; cost about \$45,000; Garza County—concrete girder bridge across Double Mountain Fork of Brazos River; R. A. Thompson, State Highway Engr.

Texas—State Highway Comm., R. S. Sterling, Chmn., Austin, receives bids Jan. 16 for steel and concrete bridge over Brazos River, on Highway No. 20, Austin-Houston, between Waller and Washington Counties, near Chappell Hill; one 320-ft. steel span, two 126-ft. span, and about 700 ft. creosoted timber trestle approach with 20-ft. roadway; main span supported by concrete piers, constructed by open method, and foundation piling; 2 land piers on concrete piling; 1,070,000 lb. structural steel, 88,600 lb. reinforcing steel, 110,000 ft. B.M. creosoted lumber, 7,000 lin. ft. creosoted piling; also receiving bids for 2 concrete bridges in Kinney County, across Elm and Arenosa Creek, Highway No. 3; W. F. Hutson, County Engr.; R. A. Thompson, State Highway Engr.

Tex., Beaumont—Jefferson County, B. B. Johnson, Judge, considering bridge between Port Arthur and Orange.

Tex., Houston—Harris County Commrs. Court, H. L. Washburn, Auditor, receive bids Jan. 16 for Fresh Water Bayou Bridge, Market Street road; Norman Atkinson, County Judge.

Tex., Port Arthur—City, J. P. Logan, Mayor, plans applying to War Dept., Washington, D. C., for permit for bascule bridge over Sabine-Neches Canal in city limits, hav-

ing clearance of 200-ft. between fenders. See Financial News—Bond Issues Proposed.

Tex., San Antonio—City plans reinforced concrete bridge across San Antonio River, connecting Grand and Jones Ave., approximate cost \$30,000; I. Ewig, City Engr.; Paul E. Steffler, Commr. of Streets.

W. Va., Point Pleasant—Maj. E. D. Ardery, U. S. States Engineering Corp., will have public hearing Jan. 7 to consider plans of Point Pleasant-Henderson Bridge Co., C. C. Stone, Pres., for suspension, highway bridge over Kanawha River, at foot of Vland St.; 600 ft. between center to center piers, vertical clearance of 92 ft. above low water, 29.7 ft. above high water. 12-15

W. Va., St. Marys—General Contracting Corp., Columbia Bldg., Pittsburgh, Pa., reported, has under construction Clarksburg-Columbus short route, steel suspension bridge over Ohio River, from St. Marys to Newport, Ohio; securities of bridge company have been underwritten by Pittsburgh and Philadelphia bankers.

W. Va., St. Marys—McLaughlin, MacAfee & Co., Oliver Bldg., Pittsburgh, Pa., and Boenning & Co., 1606 Walnut St., Philadelphia, offering \$650,000 Clarksburg-Columbus Short Route Bridge 6½% first mortgage sinking fund bonds for 1902-ft. steel suspension bridge across Ohio River, to be built by Clarksburg-Columbus Short Route Bridge Co., between St. Marys and Newport, Ohio; J. E. Greiner Co., Engrs., Lexington Bldg., Baltimore, Md.; estimated total cost of structure will be \$1,260,000.

W. Va., Shinnston—War Dept., Washington, D. C., approved plans State Roads Comm., E. B. Carskadon, Sec., Charleston, for bridge across West Fork River at foot of Clement St., Shinnston, Harrison County; 40 ft. wide concrete and steel structure, 32-ft. roadway, two 6½-ft. sidewalks; 177-ft. approach on west side of bridge; Maurice L. Loudon, County Clk. 10-20

#### Contracts Awarded

Ala., Birmingham—Jefferson County Board of Revenue let contract to W. C. Howlin for 96-ft. span treated timber bridge over railroad tracks at Lovick. 11-17

Arkansas—State Highway Comm. let contracts for 6 bridges and culverts. See Roads, Streets, Paving.

Fla., Bartow—Polk County Commrs., J. D. Raulerson, Clk., let contract to Wm. P. McDonald Construction Co., Lakeland, to build bridge across Peace River, at Fort Meade.

Md., Baltimore—Board of Awards let contract to Electric Welding Co., Ft. Block St., to reinforce Cedar Ave. Bridge over Pennsylvania R. R.; Wm. F. Broening, Mayor. 12-8

Miss., Belzoni—Humphreys County Board of Supvrs., A. R. Hutchens, Clk., let contract to Alexander Bros. for wood runways for bridge over Yazoo River; Mississippi Road Supply Co., Jackson, for steel flooring work. 11-24

Missouri—State Highway Dept. let contracts to improve 3 bridges. See Roads, Streets, Paving.

Tennessee—Dept. of Highways and Public Works let contract for 33 bridges. See Roads, Streets, Paving.

Tex., Brownsville—Puget Sound Bridge Co., reported, has contract for bridge across Rio Grande River at foot of Levee St., between Brownsville and Matamoros, Mexico, to be erected by Gateway Bridge Co., R. B. Creager, Pres. 9-29



**Canning and Packing Plants**

Fla., Felda—Hendry County Packing Corp., incorporated; L. B. McEwen, H. L. Reeves.

Fla., Howey—W. J. Howey Co., are constructing through Arch Engineering and Construction Co. a concrete and steel factory for purpose of extracting juices and canning same; comprises first unit; 40x75 ft., 2 stories.

Fla., Molino—Escambia Cannery & Produce Co., A. J. Jacobi, Mgr., has plant and will install machinery for vegetable canning plant. 12-8

Miss., Georgetown—City and Joseph Favalora, 1608 Leonidas St., New Orleans, La., reported, interested in construction of tomato factory.

**Clayworking Plants**

Miss., Yazoo City—Yazoo City Brick Co., C. E. Mann, Pres., reported, has site under consideration for brick plant; capacity 35,000 brick daily. 11-24

**Coal Mines and Coke Ovens**

West Virginia—The Hatfield-Relliance Coal Co., general office, Union Trust Bldg., Cincinnati, Ohio, advises negotiations have not been completed for acquisition of Campbell Creek Coal Co.'s property. 12-8

**Cotton Compress and Gins**

Tex., Valley View—Davis Gin Co., capital \$10,000, incorporated; J. K. Davis, E. Kirkpatrick.

**Cottonseed-Oil Mills**

Tex., Greenville—Texas Cotton Oil Refining Co., reported, rebuild burned portion of mill.

**Drainage, Dredging and Irrigation**

Ark., Osceola—Whitaker & Co., Fourth and Olive St., St. Louis, Mo., offering \$100,000 serial 5½% bonds for Mississippi County Drainage Dist. No. 16; proceeds of issue will be used for strengthening levees and repairing damage caused by recent flood; District No. 16 embraces 60,872 acres land and the incorporated towns of Manila and Leachville.

Fla., Branford—City plans clearing, dredging and marking Suwannee River for navigation from Branford to Cedar Keys, reported, War Department has appropriated \$10,000 for work.

Fla., St. Petersburg—Tampa Sand and Shell Co., 825 First St. S., probably receive contract for dredging shoals in turning basin at city's port; Ernest Kitchen, Commr. of Public Works.

Fla., Tampa—Maj. General Jadwin, Ch. of Army Engrs., reported, interested in deeper harbor, recommends widening Hillsboro and Sparkman Bay channels to 300 ft. and 29-ft. depth at Ezmont bar; cost about \$748,000 and annual maintenance of \$75,000.

Texas—Orange Car and Steel Co., Orange, reported, will manufacture 3 aqueduct tubes for the Neches Canal Co. to be used in extension of irrigation system in Jefferson County; tubes about 8 ft. diam., 90 ft. long, weigh 18 tons.

Tex., Brownsville—Arroyo Navigation Dist., J. B. Chambers, Chrmn., reported work on project of creating deep-water port at Harlingen in lower Rio Grande Valley will be started soon as Federal Government designates engineer to make necessary surveys and to supervise construction channel; project involves dredging of channel from mouth of Arroyo Colorado through Laguna Madre to Point Isabel; distance of proposed turning basin will be about 40 miles. 8-11

Tex., Eagle Pass—Maverick County Water Improvement Dist. No. 1 voted \$4,800,000 bonds; provide 60,000-acre gravity irrigation plant; W. L. Rockwell, Engr. See Financial News—Bond Issue Proposed. 12-1

Tex., San Antonio—Winter Garden Farms, Inc., W. J. Garrett, Publicity Director, advises following regarding present status of Medina Irrigation project: "21,000 acres have been subdivided and canals are now being completed by direct administration work, there are 24,000 acres yet to be subdivided and covered by canals; come contract work is contemplated in 1928; work will be light, that is, small canals and laterals with accompanying structures; survey now under way for this future work; road work to be done by forces of San Antonio Suburban Irrigation Farms."

**Electric Light and Power**

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ark., Springdale—City and Fairbanks-Morse Co., Chicago, Ill., reported, interested in establishment of light plant.

Florida—Bonbright & Co., Inc., Harris, Forbes & Co., Old Colony Corp., J. G. White & Co., Inc., and Tucker, Anthony & Co. are offering \$10,000,000 first mortgage gold bonds, 5% series due 1954 of Florida Power and Light Co., Miami; company supplies electric power and light service in 131 communities in Florida, also controls companies operating electric railway system in Miami and Miami Beach and those distributing water in Miami, Coral Gables and Stuart; proceeds to be used to provide funds to reimburse company in part for extensive additions to property.

Ga., Newton—Baker County Power Co., reported, plans improvements and expansions to utility properties at Edison, Arlington and Damascus.

Kentucky—Harris, Forbes & Co., N. Y.; Lee, Higginson & Co.; Marshall Field, Gloré, Ward & Co., 38 Wall St., N. Y.; E. H. Rollins & Sons, 44 Wall St., N. Y.; Guaranty Co. of New York, 140 Broadway, N. Y.; Brown Brothers & Co., 59 Wall St., N. Y.; The Equitable Trust Co. of New York, 37 Wall St., N. Y.; Kidder, Peabody & Co., 17 Wall St., N. Y.; Edward B. Smith & Co., 5 Nassau St., N. Y.; John Nickerson & Co., 61 Broadway, N. Y., are offering \$20,000,000 4½% gold bonds, due 1953, of Associated Electric Co.; company controlled by Associated Gas and Electric Co., 61 Broadway, N. Y.; serves 725 communities with population of 1,750,000 located in New York, Pennsylvania, Vermont, Connecticut, Kentucky, Tennessee, etc.; purpose of issue company will acquire or retire an aggregate of \$23,000,000 of its 5½% bonds due 1946.

Kentucky—Chase Securities Corp., Pynchon & Co., West & Co., Peabody, Houghteling & Co., W. S. Hammons & Co., all New York; Federal Securities Corp., Chicago; Continental National Co. are offering \$8,500,000 first mortgage and first lien gold bonds, 5½% series, due 1953, of Central States Power & Light Corp., 409 Kahl Bldg., Davenport, Iowa; company organized under laws of Delaware; will furnish electric light and power, gas or other public utilities in Iowa, Kentucky, Louisiana, Minnesota, Mississippi, Oklahoma and Texas; through subsidiaries it will also serve Alabama, Arkansas, Michigan, Missouri, North Dakota and in New Brunswick; proceeds to be used for retirement of previous bond issues and to provide part funds with which to make payment for properties being acquired.

La., Covington—City, W. M. Poole, Mayor, receives bids Jan. 12 for white way lighting installed complete on certain streets; A. G. Mundinger, Engr., 209 Main St., Baton Rouge.

Miss., Meridian—City and Mississippi Power Co., Gulfport, reported, interested in installation of white way.

Mo., Poplar Bluff—W. H. Williams, reported, interested in development of hydroelectric dam on Eleven Points River in Oregon County; storage reservoir will have capacity of 870,000,000 gal. and dam 60 ft. high will generate 2850 h.p.; applied to Federal Power Comsn., Washington, D. C., for permit.

Texas—Stone & Webster, Inc., Boston, Mass., Walter H. Burke, Southwestern Mgr., reported, plans \$10,000,000 utility development program in Houston, Fort Worth, El Paso, Galveston and Beaumont; have placed orders for 15 buses, to extend Harrisburg service at Houston; install 45,000 h. p. turbine, at Beaumont, cost \$3,000,000, transmission lines; additional light and power facilities at El Paso; transmission lines and substations at Galveston; bus terminals, bus lines and garages at Fort Worth.

Tex., Brownwood—See Ice and Cold Storage Plant.

Tex., Colorado—C. M. Adams, C. H. Earnest, reported, interested in establishment of light and ice plant.

Tex., Dallas—Texas Public Utilities Corp. increased capital \$100,000 to \$1,000,000.

W. Va., Martinsburg—Potomac Light and Power Co., reported, extend line from Falling Waters to about 1 mile beyond Marlowe.

**Fertilizer Plants**

Ala., Birmingham—Alabama Power Company advises regarding process and plans for manufacturing fertilizer at Birmingham, according to method recently devised by company's engineer in collaboration with Stewart J. Lloyd of University of Alabama; commercial production by Chemical Products Co., a subsidiary of Southeastern Power and Light Co., will start on small scale at Birmingham shortly of new method of manufacture of ammonium phosphate; manufacture fertilizer according to new method, which is to be used in conjunction with a synthetic ammonia plant utilizing by-product coke oven gas as a source of supply of hydrogen; plans for construction of an experimental plant at Birmingham to manufacture the fertilizer are being made, but as yet incomplete. 12-15

Fla., Sanford—Agricultural Muck Corp., capital \$25,000, incorporated; W. E. Stewart, A. E. Stewart.

**Flour, Feed and Meal Mills**

Md., Hagerstown—Stickells Mills, Clarence Stickell, Propr., reported, rebuild grain elevator, burned at loss of \$25,000.

Mo., Kansas City—Newsome Millfeed Co., capital \$10,000, incorporated; A. J. Gallagher, Whitson G. Rogers, 524 K. & P. Bldg.

**Foundry and Machine Plants**

Mo., St. Louis—American Stove Co., Kingshighway and Daggett St., reported, has permit for \$12,000 addition to factory, 5000 Daggett St., 88x117-ft., brick, composition roof; Grone Const. Co., builder, 1242 Syndicate Trust Bldg.; Janssen & McFarland, Archt., Chemical Bldg.

**Gas and Oil Enterprises**

Ark., Blytheville—City, Harry H. Brown, Mayor, reported, considering granting franchise either for manufactured or natural gas.

Florida—Federal Securities Corp., 231 S. LaSalle St., West & Co. 36 Wall St., H. M. Byllesby & Co., Inc., 231 S. LaSalle St., Chicago, and First National Bank, 2 Wall St., New York; Thompson, Ross & Co., 29 S. LaSalle St., Chicago; Hambleton & Co., 105 S. LaSalle St., Chicago, offering following bonds of Central Gas & Electric Co.: \$3,500,000 new issue 3 yr., 5½% gold notes and additional issue of \$7,000,000 first lien collateral trust sinking fund gold bonds, 5½%; company a Delaware corporation, will furnish through operating properties, public utility service in various communities in Illinois, Wisconsin, Michigan, Indiana, Pennsylvania, Maryland, Maine, New Brunswick and Florida; purpose of issue will be used in part for acquisition of new properties, and for other corporate purposes.

Fla., Pensacola—Southeastern Securities Co., reported, acquired all of common stock of Pensacola Gas Co.; company will consolidate with Gulf Power Co., 40 S. Palafox St.

La., Alexandria—Mid-State Petroleum Co., Inc., capital \$50,000, chartered; O. H. Melton, W. W. Grimm.

La., Crowley—Belchle & Laskey, Inc., Shreveport, reported, has 25-yr. gas franchise.

La., Eunice—Eunice-Welsh Oil Co., Inc., capital \$40,000, incorporated; E. A. Plauché, Ville Platte, N. J. A. Eunice.

La., Jennings—Salt Dome Oil Co., Inc., capital \$20,000, incorporated; D. C. Ritchie, S. B. Mullen.

La., Jennings—Belchle G. Laskey of Belchle & Laskey, Slattery Bldg., Shreveport, reported, applied for franchise for natural gas distributing system.

La., Lake Charles—Noble Oil Co., Inc., capital \$80,000, chartered; T. H. Watkins, U. A. Bell, 615 Kirby St.

La., New Orleans—Police Jury of Jefferson Parish, reported, adopted ordinance granting franchise to Ford, Bacon & Davis, Inc., 115 Broadway, New York, for pipe line under and telephone line over roadways and highways on east bank of Jefferson Parish, in connection with plans to pipe natural gas from Destrehan to New Orleans.

La., Shreveport—Ray-Dawes Drilling Co., Inc., capital \$75,000, incorporated; Walter G. Ray, 828 E. College St.; Wm. C. Woolf, 923 Commercial Natl. Bank Bldg.

Miss., Clarksdale—Chamber of Commerce, Mrs. Robert Ralston, Sec., reported, negotiating with outside capitalists for natural gas plant.

Miss., Tupelo—R. H. Owen, reported, granted 25 yr. gas franchise.

Mo., Kansas City—Standard Oil Co., reported, rebuild storage and distribution plant

at 20th and Harrison Sts., cost \$175,000; 2 stories and basement, brick and reinforced concrete, 139x142 ft.

N. C., Lexington—N. H. Gellert, Bullitt Bldg., Philadelphia, Pa., reported, soon begin construction of gas plant; negotiating for franchise.

Oklahoma—The National City Co., Chase Securities Corp., Blair & Co., Inc., New York, First Trust & Savings Bank, Tulsa, are offering \$42,000,000 10-year, 5½% gold bonds, Series A of Sinclair Crude Oil Purchasing Co., 45 Nassau St., New York; company is engaged in purchasing, storing and reselling crude oil; one-half of capital owned by Standard Oil Company of Indiana and other half by Sinclair Consolidated Oil Corp.; company owns tank farms located in oil-producing fields of Kansas, Oklahoma, Texas and Wyoming; proceeds will be applied chiefly to payment of company's 3-year, 6% notes.

Oklahoma—Oklahoma Natural Gas Corp., W. Tulsa St., Tulsa, R. C. Sharp, Pres., reported, acquired gas properties of Oklahoma Gas & Electric Co., including sources of supply, gathering lines, compressor stations, gas transmission pipe lines, etc.

S. C., Gaffney—Limestone Oil Co., capital \$10,000, incorporated; H. E. George, Henry C. Moore.

Tex., Amarillo—Holmes Oil Co., capital \$100,000, incorporated; W. H. Holmes, Amarillo Bldg.

Tex., Big Springs—Consumers Natural Gas and Power Co., F. A. Hornaday, 708 Maverick Bldg., San Antonio, let contract to Tibbey Construction Co., Braniff Bldg., Oklahoma City, Okla., for construction of pipe line; contract let for pipe, all equipment including meters, valves, regulators, etc. 12-1

Tex., El Paso—Delaware Oil Co., capital \$20,000, incorporated; J. M. Dudley, 3121 Copper St., R. D. Richey, 1301 Madeline St.

Tex., Fort Worth—Anderson Oil and Royalty Co., capital \$27,000, incorporated; W. D. Anderson, 2111 Pembroke Drive, F. Stone.

Tex., Fort Worth—Fort Worth Gas Co., reported, having plans prepared for \$150,000 machine shop, warehouse and garage on S. Main St.; has site of 6½ acres; will erect several smaller buildings for various housing facilities, central building for operating machinery of plant, storage racks, underground garage, etc.

Tex., Goose Creek—Houston Natural Gas Co., Petroleum Bldg., Houston, reported, granted natural gas franchise.

Tex., Mexia—Sinclair Pipe Line Co., reported, plans additional branch line between Mexia and Healdton, Okla., distance of 160 miles, increase minimum capacity to 30,000 bbls.

Tex., Nacona—Texas-Louisiana Power Co., Fort Worth Club Bldg., Fort Worth, reported, construct power plant; 1 story; 150x250 ft.; brick and reinforced concrete; cost \$325,000; construction by company.

Tex., San Angelo—Simms Oil Co., reported, having preliminary surveys made for pipe line in Pecos county field.

Tex., Tenaha—Chamber of Commerce, reported, completing negotiating with Dixie Gas Co., Houston, for gas system.

West Virginia—Taylor, Ewart & Co., Inc., 34 Pine St., N. Y.; Zwetsch, Heinzelmann & Co., Inc., and The Century Trust Co. of Baltimore, Baltimore and St. Paul Sts., Baltimore, Md., are offering \$2,500,000 first mortgage 6½% sinking fund gold bonds, Series A, with stock purchase privilege of Hamilton Gas Co.; company organized under laws of Delaware to engage in production, transportation and sale of natural gas and will acquire and operate properties in West Virginia; has contracts extending during life of company's fields for daily deliveries of gas up to 16,000,000 cu. ft. to Hope Natural Gas Co., a subsidiary of Standard Oil Co. of New Jersey, and 12,000,000 cu. ft. to Inland Gas Corp.; will own leases on 62,500 acres of gas lands, of which 41,880 are in West Virginia and 20,640 acres in Kentucky; proceeds from sale of bonds have been used toward acquisition of properties to be placed under lien of this mortgage and for other corporate purposes.

### Ice and Cold-Storage Plants

Ark., Memphis—Wilson Power and Light Co., R. E. Wilson, Pres., Wilson, Ark., will erect \$15,000 plant, 70x90 ft., concrete and brick, concrete floor, gravel roof; construction by owner; all materials purchased. 12-22

Ark., North Little Rock—Consumers Ice Co., capital \$200,000, incorporated; Robert E. Lee, 19 E. Parkway N.; W. J. Ayers, 1945 Evelyn St., both Memphis; Geo. H. Kendrick, 921 Barber St., Little Rock.

Ky., Cloverport—Kentucky-Tennessee Light

and Power Co., 61 Broadway, New York, reported, plans enlarging plant, increase capacity to 20 tons.

Miss., Moorhead—W. W. White, Yazoo City, reported, acquired cold storage plant; will operate.

Tenn., Bolivar—Hearn Ice & Cold Storage Co., Jackson, Tenn., reported, acquired site; plans erecting cold storage plant.

Texas—Southern Ice and Utilities Co., Santa Fe Bldg., Dallas, offering \$500,000 five-year 6½% convertible gold notes through John Nickerson & Co., 61 Broadway, New York City; St. Louis, Mo.; Chicago, Ill., and San Francisco; company serves with ice, ice cream and dairy products over 300 communities in Texas, Oklahoma, Arkansas and Louisiana.

Tex., Brownwood—Morgan Utility Corp., M. B. Morgan, Pres., reported, plans erecting \$100,000 ice plant on Center Ave.; 177x50 ft., brick and tile; soon let contract; machinery all purchased; also has option on adjoining property to build electric light and power plant; applied for franchise.

Tex., Colorado—See Electric Light and Power.

Tex., Raymondville—Valley Electric & Ice Co., headquarters San Benito, reported, plans erecting \$100,000 cold storage and refrigeration plant; has acquired 10 acre site; soon begin construction.

### Iron and Steel Plants

Tex., Houston—Markle Steel Co., C. N. Markle, Pres., 1709 Shepherd St., reported, acquired 10.4 acre site on south side of the upper ship channel, with about 500 ft. frontage, plans establishing plant.

### Land Development

Ark., Fort Smith—City, reported, plans expending \$50,000 for parks and playgrounds; W. H. Evans, City Engr.

Fla., Jacksonville—James Holding Corp., capital \$10,000, incorporated; E. J. Estes, 3601 Hedrick St.; N. Estes.

Fla., Melbourne—Kaighn Groves, Inc., chartered; G. S. Kaighn, M. S. Kaighn.

Fla., Miami—Combs Investment Corp. incorporated; Reese Combs, Bedford Bldg.; J. J. Combs.

Fla., Panama City—Farmers Land Co. incorporated; Wm. F. Look, R. L. McKenzie.

Fla., Perry—Mead-Baleh Construction Co., reported, clearing tract to be subdivided into small farms.

Fla., St. Petersburg—Camilla Land Co., capital \$25,000, incorporated; H. A. Meyer, R. E. Larkin.

Fla., Tampa—Pashill Corp. incorporated; Wm. G. McLean, Jr., 312½ Twigg St.; C. S. Hicks.

Fla., Tampa—F. M. Harmon Properties, Inc., chartered; F. M. Harmon, J. H. Mason.

Fla., Tampa—Tampa Homesite Co. incorporated; G. C. Rankin, 2504 Prospect St.; Charles H. Brown, 209 Seventh Ave.

Fla., Tampa—Metropolitan Holding Co. incorporated; Emmett Donnelly, L. L. Campbell.

Ga., Millen—J. G. Gunn, reported, acquired 253 acres.

Ga., Millen—J. G. Ellison, reported, acquired 175 acres.

La., New Orleans—Inter-City Realty Co., Inc., chartered; Geo. Irving, 1201 Pere Marquette Bldg.; H. C. Prevost, Jr., 1409 Calhoun St.

La., New Orleans—Standard General Realty Co., Inc., capital \$25,000, chartered; J. S. McClane, 725 Union St.; Sheridan McClane, 725 Union St.

La., Opelousas—A. E. Veltin, reported, interested in construction of golf course; L. E. White, Golf Archt.

La., Shreveport—South Side Investment Co., Inc., capital \$25,000, chartered; O. E. Gammill, C. C. Pittman, 2727 Virginia Ave.

Miss., Biloxi—George M. Doty, 38 S. Dearborn St., Chicago, Ill., reported, developing Shorecrest, 300 acre tract at junction of Biloxi and Tchouticabouffa Rivers, for subdivision and 18-hole golf course; Hamilton Brothers, Gulfport, has contract for water works; construct system of roads and parkways; Glen Fleming, Gulfport, in charge of work.

Miss., Gulfport—Gulf Coast Highlands, capital \$15,000, incorporated; S. M. Major, Mrs. Gradyce Collins.

Mo., Kansas City—Tacoma Realty Co., capital \$50,000, incorporated; Bradley W. Young, Spokane, Wash.; John Meredith, Kansas City.

Mo., Kansas City—American Nursery and Landscape Co., capital \$30,000, incorporated; Lewis A. Walmsley, George M. Gaugh, Courtney Rd.

Mo., Kansas City—Lyons & Morrison, Inc., incorporated; C. H. Lyons, W. L. Morrison.

Mo., St. Louis—Illmoark Land Corp., 202 Holland Bldg., incorporated; Edward G. Rolling, Times Bldg.; Frank K. Ashby.

N. C., Morganton—Frank Tate retained E. S. Draper, Landscape Archt. and Engr., Charlotte, to plan development of residence grounds.

N. C., Winston-Salem—W. T. Smither, 598 Glad St., retained E. S. Draper, Landscape Archt. and Engr., Charlotte, to plan development of residence grounds.

N. C., Winston-Salem—Robt. E. Follin, Country Club Rd., will have estate planned by E. S. Draper, Landscape Archt., Charlotte, including gardens, tennis courts, driveways, etc.; Reynolds Landscape Service in charge of landscaping.

S. C., Camden—H. P. Kendall, Boston, Mass., making improvements to estate, including garden development; plans by E. S. Draper, Landscape Archt. and Engr., Charlotte, N. C.

Tenn., Altamont—Altamont Land Co., capital \$60,000, incorporated; Jas. H. Northcut, Altamont; Robt. A. Olmsted, Southern Pines.

Tex., Corpus Christi—Keenan & Clarey, Inc., Minneapolis, Minn., reported, subdivide 2600 acres in Jim Wells County and 11,000 acres in Bee County.

Tex., Dallas—Lill-Worth Vineyards, Inc., H. A. Felder, Pres., has 5000 acre tract developing 1000 acres in grapes, etc.; clearing ground, erecting crushing plant, shipping depot and cooperage mill. See Want Section—Machinery and Supplies.

Tex., El Paso—Warren Pilcher, Two Republic Bldg., reported, secured option on 675 acres for hotel club and subdivision.

Tex., Houston—McKinnon Land Co., capital \$10,000, incorporated; W. J. Howard, Scanlan Bldg.; Charles C. McRae, Second Natl. Bank Bldg.

Tex., Houston—Westmoreland Development Co. increased capital \$200,000 to \$250,000.

Tex., Marlin—Sunshine Pecan Orchards, Inc., San Antonio, reported, develop 500 acres in pecans.

Tex., San Antonio—Pawnee Realty Co., capital \$100,000, incorporated; F. L. Thompson, R. T. Pruitt, 429 E. Evergreen St.

Tex., San Antonio—Lamm Pecan Co., incorporated; Ernest H. Lamm, 2408 S. Flores St.; C. S. Maupin.

Tex., San Antonio—See Drainage, Dredging and Irrigation.

Tex., San Benito—J. M. Higginbotham, 4700 Lake Side Ave., Dallas, reported, acquired 220 acres irrigated land in Hidalgo County.

Va., Hopewell—Commerce Street Realty Corp., capital \$50,000, incorporated; Charles Akers, J. E. Enochs.

Va., Norfolk—Oak Grove Point Corp., capital \$100,000, organized; Edmund S. Ruffin, Jr., Citizens Bank Bldg.; John K. Peebles, 1111 W. Princess Anne Rd.; develop Oak Grove Point subdivision; install water, sewers, gas, electric lights, etc.

Va., Petersburg—Overbrook Hills, Inc., capital \$25,000, incorporated; W. N. Anderson, S. R. Beasley.

Va., Richmond—Southland Realty Corp., T. P. Shelburne, Pres., 3921 Seminary Ave., will develop 140 acre subdivision.

### Lumber Enterprises

Fla., Jacksonville—Caribbean Co., Ltd., chartered; Edw. Ewer, R. N. Springler, Bryan Simpson; operate saw mills.

Fla., Lake Helen—Bond-Booker Lumber Co., incorporated; P. M. Booker, R. H. Booker, M. M. Bond.

N. C., Charlotte—J. H. Wearn & Co., 200 S. Brevard St., reported, plans building new plant.

Okla., Tulsa—Tulsa Lumber & Supply Co., 30 North Owasso St., increased capital, \$30,000 to \$60,000.

Tenn., Knoxville—Cash-Haul Lumber Co., 612 E. Depot St., let contract to V. L. Nicholson Co., 102 W. Clinch Ave., for erection new shed, 100x150 ft., wood and stucco, wood floor, asphalt shingles; has 5 locations in city of Knoxville. 12-22

Tenn., Nashville—Frank Kyle, Charles Kyle and Millard Kyle, reported, acquired the lumber mill property of John B. Ransom Co., Thirteenth Ave. N. W.

Tex., La Porte—Huweiler Lumber Co.,



capital \$25,000. W. T. Carter, Jr., J. L. Taylor, Sam H. Huweller.

### Mining

La., Lafayette—Mulkey Salt Co., 500 S. Dix St., Detroit, Mich., reported, acquired plant of Lafayette Salt Co. at Anse LaButte section; plans repairing plant, increasing capacity to 200 tons daily.

Mo., Joplin—Lead, Zinc, etc.—Emerson Mining Co., capital \$100,000, incorporated; Chas. E. Wills, Cecil C. Brookshire, 210 N. Sergeant St.; John C. Emerson, 1930 Main St.

N. C., Burnsville—James L. Hyatt, Burnsville and J. F. Shinn, Norwood, reported, plans constructing \$500,000 plant for mining feldspar, daily capacity 150 tons; have about 350 acres in Yancey County; plant to be located on Black Mountain railway at Bowditch. Rudolph Glatley, Micaville, N. C., will be Ch. Engr. and plant Supt. 12-15

Tenn., Knoxville—Purchase of Gray Eagle Marble Co., Asberry, Tenn., and Gray Eagle Marble Mills, Inc., Riverside Dr., by the Knoxville Marble Co. and consolidation of mills and quarrying operations of properties involved through organization of new corporation with capital of about \$1,000,000, reported, announced through the Bankers Trust Co.; Knoxville Marble Co. will assume control of property by Dec. 31; properties include large finishing mill on Riverside Drive; 140 acres quarry land located at Asberry; new company will probably be formed to be known as Knoxville-Gray Eagle Marble Co., with Otto Roehl, Pres.; Walter Clark, V-Pres. and Gen. Mgr.; office for present will be maintained at Knoxville Marble Co., Island Home Pike.

Tenn., Knoxville—Ben H. Testerman, Atty., Bankers Trust Bldg., reported, acquired mill, plant and quarry equipment of the Farragut Marble Co.

Tex., Houston—Muldoon Fullers Earth Corp., capital \$25,000, chartered; L. D. Brown, First Natl. Bank Bldg., Mary A. Brown, E. C. Alley.

Va., Chula—General Minerals Corp., capital \$100,000, chartered; Walde H. Jones, Chula; Lyle N. Gillis, James H. Gillis, both Alexandria, Va.

Va., Roanoke—Virginia Minerals Corp., chartered; Abram P. Staples, Boxley Bldg., Marie Low, Curtis Simpson, Boxley Bldg.

Va., Petersburg—Friend Sand and Gravel Co., River St., Thomas Whyte, V-Pres., Box 395, has 200 acres under development, daily output 1000 tons; equipment all purchased. See Want Section—Miscellaneous. 12-8

### Miscellaneous Construction

La., Hahnville—Embankment—Louisiana Highway Comsn., Raymond Bldg., Baton Rouge, construct embankment for following highway: Fed. Aid project 173-B, Unit No. 1, St. Charles Parish, Baton Rouge-New Orleans (Air Line) highway; receives bids Jan. 11, 1928. See Want Section—Bids Asked.

Miss., Ocean Springs—Seawall, etc.—Jackson County Road Protective Comsn., F. H. Lewis, Chmn., Pascagoula, Miss., and Board of Supvrs., reported, let contract to Miller-Hitchinson Co., Lake Charles, La., at \$400,500.37 to build approximately 10,000 ft. seawall and beach driveway, convex type, boulevard to be 20-ft. wide; Ocean Beach project is second unit of seawall to be constructed in Jackson County. 11-24

Okla., Oklahoma City—Federal Construction Co., reported, has contract for erection Memorial Park electric fountain; E. B. Smith, City Park Supt.

Tex., Corpus Christi—Nueces County voted \$1,500,000 port bonds; Robert Driscoll, Chmn. Navigation Comsn. See Financial News—Bond Issues Proposed.

W. Va., Huntington—Pier—Ice Pier Committee of Chamber of Commerce, Harry A. Zeller, Chmn., reported, plans construction pier for protection of boats from ice floes; having soundings made of Huntington harbor of Ohio river from mouth of Guyan river to West Huntington.

### Miscellaneous Enterprises

Ala., Birmingham—Coca-Cola—Crawford, Johnson & Co., Inc., Coca-Cola Bldg., cor. Ave. E and Twenty-second St., plans building new plant; D. O. Whilldin, Archt., 515 N. 21st St. 12-8

Ala., Birmingham—House Furnishings—Acme Co., main office New York City, reported, erect branch plant at Smith Park, 4 story, brick, has 50x170-ft. site at Sixth Ave. and Seventh St.; company has warehouse at 312 N. Twenty-fourth St.; plans by Charles H. McCauley, Jackson Bldg.

Ala., Sheffield—Sheffield Shirt Co., Inc., ad-

vises have building and installed complete machinery and other fixtures for manufacture of white broadcloth shirts. 12-15

D. C., Washington—The Highway Engineering Bureau, Charles M. Upham, Pres.; Fred E. Schnepfe, V-Pres.; establish offices in National Press Bldg.; offering consulting services in highways, transportation and associated industries.

Fla., Arcadia—Odorless Dry Cleaners, Inc., capital \$10,000, chartered; T. J. Zimmerman, I. L. Zimmerman, J. L. Scott.

Fla., Bartow—Halzev Hotel Co., incorporated, H. W. Johnson, B. I. Johnson, M. Gimmel.

Fla., Fort Lauderdale—Lake Mable Harbor Terminal Co., chartered; J. H. Nissen, Wm. Nissen, R. G. Mills.

Fla., Haines City—Ridge Produce Co., Inc., capital \$25,000, chartered; H. R. Eaton, E. L. Stinyard, G. C. Huie.

Fla., Lakeland—Modern Market, Inc., capital \$50,000, chartered; J. E. Miller, 302 N. Iowa Ave., F. R. Nichols, 619 E. Charles St., Lucille Miller.

Fla., Miami—Marine Supplies, etc.—Moore Marine Co., Inc., chartered; V. J. Moore, Kingman Moore, G. G. Harris.

Fla., Miami—Imperial Candy Corp., capital \$10,000, chartered; W. M. Thompson, M. L. Thompson, A. R. Wood.

Fla., Miami—Beverage—Moxie Co., 74 Heath St., Boston, Mass., reported, plans establishing plant.

Fla., Ocala—Woods Mercantile Co., incorporated; M. M. Woods, C. A. Savage, Jr., Elton Stanaland.

Fla., Ocoee—Merchandise—Clarke-Kirkland Co., capital \$10,000, chartered; P. B. Clarke, J. J. Kirkland, R. J. Mobley.

Fla., St. Petersburg—Florida Fishing Tackle Mfg. Co., Inc., capital \$20,000, chartered; C. F. Clark, 2734 Second Ave., N., L. C. Likely.

Fla., St. Petersburg—Spray Paint Co., incorporated; L. B. Hulse, 634 Second Ave. S.; M. E. Hulse, E. L. Nichols, 523 22d Ave. S.

Fla., St. Petersburg—Pennsylvania Hotel Co., capital \$500,000, incorporated; H. C. Case, Fourth St. and Third Ave., E. S. Case, W. R. Black.

Fla., Tampa—Olive Hotel Property, Inc., chartered; M. L. Elliott, 706 Franklin St., G. D. Logan, Addison Logan, 1813 Richardson Pl.

Ky., Louisville—Falls City Ice and Beverage Co., 3015 W. Broadway, has permit for \$12,000 plant addition.

La., Farmersville—Bottling, etc.—N. L. Harmon Co., Inc., capital \$18,000, chartered; N. L. Harmon, Henry Schrieber, both Homer.

La., Lake Charles—The Association of Commerce, Lake Charles, wires negotiations have been closed with the Dixie Creameries, Inc., 2419 Southern Ave., Shreveport, La., for \$100,000 creamery plant; Dixie Creameries now operate 16 creamery plants in Arkansas and Louisiana; site for creamery purchased and contracts for building and equipment will be let January 1, 1928; location of plant in Lake Charles is first step towards developing the dairying section in Southwest Louisiana. 12-8

La., New Orleans—Bunn Electrical Engineering Co., Inc., capital \$10,000, incorporated; Orlan L. Bunn, Lynds L. Jones, both 835 Baronne St.

La., New Orleans—Burke Cooling and Heating System, Inc., capital \$100,000, chartered; Horace B. Burke, Chas. C. Gaspard, Title Guarantee Bldg.; H. W. German.

La., New Orleans—House Furnishings—Peoples Outfitting Co., Inc., capital \$10,000, chartered; Harry Lotka, 2529 Marengo St.; Cassius Fishburn, 2320 Jena St.

La., New Orleans—Mavis Bottling Co., Candler Bldg., Pratt St., Baltimore, Md., leased building at 2021 Delachaise St.; remodel for bottling plant; work under way by company's forces.

La., New Orleans—Cloverland Dairy Products Co., Inc., 3625 Tulane Ave., Geo. A. Villere, Pres., organized in December, 1927, succeeds its predecessor of same name, a Louisiana corporation organized 1922. The company operates its principal plant in New Orleans and owns entire business operated by former company: Cloverland Dairy Products Co., Inc., offering \$725,000 first (closed) mortgage 6½% convertible sinking fund gold bonds, price 100 and accrued interest to yield 6½%; proceeds of issue and junior securities will be used for acquisition of business and assets of old Cloverland Dairy Products Co. and for additional working capital. Caldwell & Co., Nashville, Tenn., and Wheeler & Woolfolk, New Orleans, La., offering \$275,000 five-

year 6½% convertible sinking fund gold notes for the Cloverland Dairy Products Co., Inc.; proceeds of issue used in part for acquisition of former company and for additional working capital.

La., Oakdale—Dr. M. V. Hargrove, E. J. Watson and associates interested in establishment of basket factory.

La., Shreveport—Southern Cone Manufacturing Co., Inc., capital \$12,000, chartered; S. E. Amer, T. B. Carpenter, 444 Kingshighway.

Md., Baltimore—Broadway Jewelry Co., Inc., 533 S. Broadway, capital \$20,000, chartered; Mark Streicher, Nathan Hamburger, Equitable Bldg.

Md., Baltimore—Tru-Silk Hosiery Corp., Seaboard Bldg., incorporated; Alladin Rosenbacker, Charles M. Cahn, 2316 Mt. Royal Ave.; Mrs. Fannie Cahn.

Md., Baltimore—Crown Cork & Seal Co., Inc., is being organized under laws of New York with Charles E. McManus, Pres., and will acquire the business and assets of the New Process Cork Co., Inc., 48 35th St., Brooklyn, N. Y. and The Crown Cork and Seal Co., Baltimore City. The Crown Cork and Seal Co. of Baltimore has manufacturing space in excess of its present requirements and sufficient to house the equipment of the new Process Cork Co., Inc., which is now being moved to Highlandtown Branch, Baltimore; Hambleton & Co., Baltimore Trust Co., both Baltimore, and Paine, Webber & Co., Boston, are offering \$5,500,000 twenty year 6% sinking fund gold bonds (closed issue), price 88½ and accrued interest to yield over 6½%.

Miss., Brookhaven—F. O. DuBose, Winnfield, La., reported, plans moving laundry plant to Brookhaven; capacity about 4500 lbs. laundry weekly.

Miss., Greenwood—Office Supplies—F. P. Holloman, Inc., capital \$10,000, chartered; F. P. Holloman, T. R. Holloman, Ideene B. Holloman.

Miss., Natchez—Mercantile—Geisenberger & Friedler Co., capital \$150,000, incorporated; Samuel Geisenberger, Clifton Heights; Joa. J. Friedler.

Mo., Aurora—Store Fixtures, etc.—Queen Fixture Co., incorporated; M. L. Queen, Branson, Mo.; W. N. Burney, M. E. Ensley, both Aurora.

Mo., Gallatin—Art-Craft Wall Paper and Paint Co., incorporated; Bess C. Murray, G. C. Murray, Fred M. Harrison.

Mo., Kansas City—M. W. Weatherstrip Co., 4053 Broadway, A. L. Moon, Sec., has plant to manufacture metal weatherstrips; advises special machinery will be constructed according to specifications. 12-22

Mo., Kansas City—Gleaner Combine Harvester Corp., S. H. Hale, Pres., 636 Westover Rd., reported, let contract to Truscon Steel Co., 12th and Holmes St., for steel and to Orville Campbell of Independence for brick and concrete used in erection of plant addition; building 527 ft. long, extend from Main St. to Grand Ave.; contemplates increasing output to 8000 machines annually. 10-20

Mo., Kansas City—Contractors Supply Co., capital \$50,000, incorporated; E. D. Horton, 1601 E. 42nd St.; J. A. Eames, E. J. Short.

Mo., Kansas City—Clothing—Charles Greenberg & Co., Inc., capital \$40,000, chartered; Charles Greenberg, 5623 Wornall Rd.; Charles Jacoby, 2405 E. 69th St. Terrace; A. Greenberg.

Mo., Poplar Bluff—Packing House Products—Cox Packing Co., capital \$20,000, chartered; J. H. Cox, J. S. Anderson, K. G. Mott.

Mo., St. Joseph—Poultry Supplies, etc.—Kleinschmidt, LaMar & Co., 2014 Frederick St., capital \$10,000, incorporated; V. J. Kleinschmidt, L. S. Kleinschmidt, Geo. W. Eastin.

Mo., St. Louis—Insulating Materials, etc.—Missouri Kalkite Corp., capital \$10,000, chartered; Robert Kucera, East St. Louis; Charles Noel, 509 Olive St.; J. Carter Carstens, 211 N. Seventh St., both St. Louis.

Mo., St. Louis—Ruth Hat Manufacturing Co., 410 N. Twelfth St., capital \$10,000, incorporated; Leon Rosen, 5727 Kingsbury P.; Ben Cohen, 5356 Cote Brillante St.

Mo., St. Louis—Webb-Boone Roofing Co., incorporated; Frank C. Webb, 4131 Lafayette St.; Malcolm L. Wagstaff.

Mo., St. Louis—Restaurant, etc.—Canton Tea Garden, Inc., 3524 Washington St., capital \$35,100, chartered; Frank S. Hall, Frank Sell, Chu R. Quin.

Mo., St. Louis—Roosevelt Hotel Co., capital \$200,000, chartered; P. A. Koch, E. E. Meier, I. F. Steilmeyer.

Mo., St. Louis—Contracting—D. Seeger, & Son, Inc., capital \$15,000, chartered; Daniel

Seeger, Walter D. Seeger, 5430 Claxton St.; Earl Seeger.

Mo., St. Louis—Waterproofing Materials, etc.—General Waterproofing Co. incorporated; Henry Albrecht, Jr., Andrew J. Keeley, Marie A. Duggan.

N. C., Asheville—David L. Strain, Box 1045, contemplates constructing plant to manufacture grapejuice, preserves, jellies, etc.; install complete equipment. See Want Section—Machinery and Supplies.

N. C., Asheville—Mercantile—Asheville Radio Service Co. chartered; John D. McMillan, Francis A. Plummer, Harold D. Kent.

N. C., Charlotte—Building Materials—Ross Sales Service, Inc., capital \$50,000, chartered; R. Galloway Ross, 410 N. Poplar St.; E. S. Bullock, Lucy Ellis Ross.

N. C., Charlotte—Ajax Rubber Co., 220 W. Forty-seventh St. New York City, reported, passed into hands of new management. Board of Directors elected H. L. McClaren, Pres. and ratified acquisition of McClaren Rubber Co.; plans to expand operations of both companies; Ajax Co. has capital of 650,000 shares of no-par capital stock; funded debt consists of \$2,097,600 of first mortgage, fifteen year sinking fund 8% bonds, due Dec. 1, 1936. 12-15

N. C., Charlotte—Motion Pictures—Circle Amusement Co., capital \$100,000, incorporated; N. L. Royster, G. F. Helleg, L. F. House.

N. C., Charlotte—Insecticides—National Chemical Co., Clayton Hotel, Fifth and Church St., capital \$25,000, incorporated; A. M. Whelpley, H. G. Horne, Whit L. Brown.

N. C., Durham—Overalls—E. L. Smith, Hackney Bldg., reported, probably erect factory building.

N. C., Erwin—Laundry—Jernigan Co., capital \$100,000, incorporated; R. S. Kelly, C. H. Miller, C. F. Jernigan.

N. C., Fairmont—Merchandise—Pittman Bros., Inc., capital \$10,000, chartered; S. B. Pittman, S. W. Pittman, Mrs. Jessie Pittman.

N. C., Gastonia—Printing—Atkins-Rankin Co., capital \$50,000, chartered; Jno. Rankin, J. W. Atkins, Ben E. Atkins.

N. C., Charlotte—Miller Hardware and Equipment Co., capital \$25,000, incorporated; Geo. J. Miller, 1519 E. Seventh St.; D. E. Henderson, Law Bldg.

N. C., Greensboro—Contracting, etc.—Hotel Holding Co., Inc., capital \$250,000, chartered; Chas. W. Gold, 817 N. Elm St.; C. C. Hudson, Jefferson Standard Bldg.; J. B. Harrison, 1045 W. Market St.

N. C., Louisburg—Farmers Creamery Inc., capital \$50,000, chartered; S. P. Boddie, A. H. Fleming, David Harris.

N. C., Mount Holly—Mount Holly Steam Laundry, Inc., capital \$15,000, chartered; Charles J. Owens, Kenneth Todd, Hillcrest St.; W. E. Todd, 401 E. Franklin St., Gastonia.

N. C., Statesville—Contracting—Statesville Tile and Terrazzo Co., capital \$50,000, incorporated; S. Taro, Charlotte Taro, Frank S. Sherrill.

N. C., Winston-Salem—R. J. Reynolds Tobacco Co., reported, has permit for construction overhead bridge connecting two factory buildings on E. Fifth St.; concrete and steel.

Okla., Tulsa—Freeman-Springer Construction Co., capital \$25,000, incorporated; W. T. Freeman, 1738 S. Wheeling St.; Oscar Springer, Ralph McCafferty.

Okla., Tulsa—Gordon Barnes Funeral Home, capital \$20,000, incorporated; Gordon Barnes, G. H. Miller, Atlas Life Bldg.; H. C. Smith, 33 E. 17th St.

Okla., Tulsa—Keystone Light and Fuel Co., capital \$10,000, incorporated; C. C. Cantrell, 107 1/2 E. Second St.; Ella H. Cantrell, Lida C. Walsh.

S. C., Greenville—Alexander Hotel Co. incorporated; J. Mason Alexander, F. M. Alexander, 703 Henderson St.

S. C., Sumter—Lawson Coffee Co., Inc., F. O. Lawson, Pres., has installed complete new roasting outfit furnished by Huntley Manufacturing Co., Brocton, N. Y.

Tenn., Johnson City—Grocers Baking Co., J. Wm. Miller, Pres., 1455 S. Seventh St., Louisville, Ky., advises have leased large building; contracted for all wiring of the motors and lights, hot and cold water and drainage; Baker-Perkins Co., Saginaw, Mich., placing all machinery, etc. 12-8

Tenn., Memphis—Tri-State Theater Corp., capital \$50,000, chartered; W. P. Biggs, U. & P. Bank Bldg.; C. A. Johnson, E. F. McClure.

Tenn., Memphis—West Side Apartment, capital \$25,000, chartered; E. A. Lindsey, L. W. Hall, M. E. Rea.

Tenn., Sparta—Special Committee, Civitan Club, reported, making survey for proposed establishment of creamery or milk plant.

Tex., Amarillo—Plains Capital News Publishing Co., capital \$10,000, incorporated; H. C. Anderson, 701 Tennessee St.; A. C. Hayes, F. C. Fliann.

Tex., Beaumont—The Enterprise Co., Publishers of the Beaumont Enterprise and the Beaumont Journal, offering 7% preferred stock; proceeds of sale will be used in improvements of publishing plant, in remodeling and adding to buildings, also paying off outstanding indebtedness.

Tex., Coleman—Coleman Creamery, R. B. Red, Mgr., advises erect 32x80-ft. building, fireproof, steel, brick and cement; plant will be installed with Cherry equipment and machinery for manufacture of ice cream, butter and pasteurized milk; will perhaps install Baker or York machinery for refrigeration. 12-1

Tex., Corpus Christi—James Sifris, reported, has permit for erection bottling plant on Leopard St., 48x75 ft.; V. DeSantos, Contr.

Tex., Dallas—State Amusement Corp. chartered; Wm. L. Schomerus, Myrtle Teeter, Ila Schomerus.

Tex., Dallas—City contemplates new central fire station including signal system plans made by Flint and Broad, Archts., Melba Bldg., reported, present automatic control system to be changed to manual control system; Clarence S. Parker, Police and Fire Commr.

Tex., Galveston—San Luis Hotel incorporated; J. E. Stratford, Ben Bass, John L. Sterling, 3212 J St.

Tex., Greenville—Greenville Broom Factory, J. H. Green, Pres., Elmore City, Okla., reported, plans establishing broom factory; W. F. Jones in charge of local plant.

Tex., Houston—National Standard Fire Insurance Co., Geo. M. Flint, Sec.-Treas., Post-Dispatch Bldg., plans increasing capital, \$100,000 to \$250,000.

Tex., Houston—Rein Co., reported, plans erecting modern publishing plant on Buffalo Drive, plans under way.

Tex., Houston—Southern Floral Co., Jack Weatherford, Pres., Westheimer Rd., reported, acquired greenhouses and 20 acres land from B. J. Berthelson; greenhouses include 3 batteries, 65x300-ft. of 6 sections each, producing about 50,000 roses, also refrigerating plants, boiler equipment, etc.

Tex., Mercedes—United Printing Co., Inc., 121 Texas Ave., will erect 2-story, 25x125-ft. plant; reinforced concrete, hollow tile and stucco, concrete floors, tile roof, cost \$25,000; install Miller saw trimmer, printing press, linotype materials, portion of which is furnished by Barnhardt Bros. & Spindler; begin work in January; R. Newell Waters, Archt.; W. F. Shaw, Constr. Engr. See Want Section—Machinery and Supplies. 12-22

Tex., San Angelo—Findlater Hardware Co. plans erecting \$30,000 building; Korn & Morgan, Archts., San Angelo and Dallas.

Tex., San Antonio—Chicken Disease Remedies—Dr. George C. Dennis, 4611 W. Commerce St., reported, erect 2-story factory building.

Tex., San Antonio—Lamm Pecan Co. incorporated; Ernest H. Lamm, 2408 S. Flores St.; C. S. Maupin, Geo. R. Gillette, Alamo Bank Bldg.

Tex., San Marcos—Hayes County Farmers Dairy Products Co., reported, plans erecting creamery on Water St.; 1 story, 50x70 ft., hollow tile and stucco, reinforced concrete; receiving bids; David C. Donaldson, Archt.

Tex., San Saba—Bob McConnell, reported, receive bids about Jan. 1 for erection pecan shelling factory and saresrooms, concrete, hollow tile, brick and cast stone, cost about \$35,000, including machinery; Beverly W. Spillman, Archts., Alamo Bank Bldg., San Antonio. 12-15

Tex., Waco—Shear Coffee Co., capital \$100,000, incorporated; J. M. Boyd, 916 N. 19th St.; M. W. Colgin, 2611 Austin Ave.

Tex., Waco—The Rapid Battery Manufacturing Co., 1401 James St., J. F. Murrell, Pres., plans erecting 110x70-ft. 2-story building, wood concrete floor, galvanized iron; install \$1500 equipment. See Want Section—Machinery and Supplies. 12-22

Va., Norfolk—T. H. Barton Amusement Device Co., Pittsburgh, Pa., reported, has contract to install new concessions for Ocean View Park; Otto Wells, Owner, Dickson Bldg.

Va., Norfolk—Stevedoring—Crider Maritime & Terminal Corp. chartered; Irvin G. Craig, W. C. Faulkner, R. H. Knight.

Va., Suffolk—Planters Nut and Chocolate Co., A. Obiel, Pres., 212 Johnson Ave., re-

ported, plans erecting new plant for cleaning and shelling peanuts to be known as factory No. 18; modern fireproof construction, 7-story, 80x300 ft.; equip with special machinery; cost about \$500,000; probably begin work in January. 2-24

### Motor Bus Lines and Terminals

Ala., Bladen Springs—B. G. Knight and A. S. Knight applied for permit to operate motor bus service between Bladen Springs and Mobile via St. Stephens, Calvert and other intermediate points.

Ala., Chatom—M. Pellum applied for permit to operate motor transportation service between Mobile and Chatom via Sunflower and Uniform.

Ala., Fort Payne—Marshall & Wilder, 108 Grand Ave., operate bus line between Fort Payne and Chattanooga; plan erecting garage. 12-22

N. C., Durham—Golden Belt Bus Line, Inc., capital \$28,000, chartered; W. A. Watkins, Florence Watkins, both Durham; Rawley Galoway, Raleigh, 123 W. Park Dr.

### Motor Cars, Garages, Filling Stations

Fla., Bradenton—Dobbs Motor Co., capital \$20,000; Paul Dobbs, W. B. Emmert, Paul Emmert.

Fla., Miami—Automobiles—Rex D. Kaufman, Inc., capital \$20,000, chartered; Rex D. Kaufman, N. C. Kaufman, R. B. Horton.

Fla., Miami—Knight Construction Co., 60 N. E. Thirty-ninth St., awarded contract for erection municipal garage at Tenth and Twentieth St. N. W., 2-story, 185x245-ft., reinforced concrete and steel, rock and oil floor, steel roofing, cost about \$42,000; M. L. Hampton and Associates, Archts., 709 Congress Bldg. 12-22

Fla., Orlando—Automobile Accessories—Ruston's Place, Inc., capital \$10,000; M. E. Ruston, G. A. Ruston, 544 N. Orange St.; L. B. Ruston.

Fla., Winter Haven—Haven-Chevrolet Co., capital \$10,000, incorporated; W. D. Morton, H. B. Morton, Emma Morton.

Ga., Atlanta—Cole Iron Works, 1272 Murphy Ave. S. W., Atlanta, advises have contract to furnish miscellaneous and ornamental iron for plant of the Chevrolet Motor Co. at Atlanta. 12-15

Ky., Louisville—Carl Thromarshaus, reported, has permit for filling station cor. Thomas and Spring St.

La., Abbeville—Nettles-Chevrolet, Inc., capital \$10,000, incorporated; John Nugier, J. E. Nettles, T. Baudoin.

La., Bastrop—Michie Motor Co., Inc., chartered; J. H. Michie, J. H. Leach, both Mer Rouge; J. B. Spier, Bastrop.

La., Monroe—Swartz Motor Co., Inc., capital \$10,000, chartered; L. P. Milner, Coop Rd.; W. E. Lawson, W. T. Coats.

Miss., Brookhaven—Marx Motor Co., capital \$25,000, incorporated; Joseph Marx, Florence Marx, Louis L. Entrican.

Mo., St. Louis—Boaz-Kiel Construction Co., 407 N. Seventh St., reported, has permit for \$40,000 automobile salesroom for Hilmer-Belcher Chevrolet Co., 2244 S. Kingshighway Blvd.

N. C., Asheville—Automobiles—MacIntire-Jones, Inc., capital \$25,000, chartered; Edw. F. Jones, Mary P. Jones, C. R. MacIntire.

N. C., Greensboro—John A. Kellenberger, Jefferson Bldg., reported, plans erecting two garage buildings on N. Forbis St.; brick and stone, combined frontage of 175 ft., each have floor space of 22,000 sq. ft., estimated cost \$65,000; Joseph J. Sawyer, Archt., Jefferson Standard Bldg.; one garage will be occupied by the Laidley Motor Co.; plans being prepared; bids to be received early in January.

N. C., Varona—Lafayette Transit Co., capital \$50,000, incorporated; S. S. Farabow, L. Y. Ballentine, both Varona; W. Brantley Womble, Raleigh.

Okla., Tulsa—Nob Gasoline Co., capital \$10,000, incorporated; A. D. Noble, S. O. Noble, W. D. Allen.

Okla., Tulsa—Red Ball Stages, Inc., capital \$30,000, chartered; W. T. Ragsdale, D. B. Ragsdale, Mrs. Opal Cunningham.

Tex., Beaumont—Yount-Lee Oil Co., M. F. Yount, Pres., reported, plans erecting garage at Liberty and Alamo St.; brick, steel frame and concrete, 2-story, 85x100 ft., cost about \$30,000; F. W. Steinman & Son, Archts., 411 San Jacinto Life Bldg.

Tex., Galveston—See Telephone Systems.

Tex., Pampa—Underwood Motor Co. incorporated; T. K. Underwood, C. H. Rutter, Walter Cheek.

Tex., San Antonio—Charles Schwartz, 2514



Main St., reported, acquired property in 400 block Garden St., remodel for garage and automobile sales rooms.

Va., Richmond—William C. West, Archt., Merchants Natl. Bank Bldg., drawing plans to remodel and convert building cor. Ninth and Carey St. (formerly J. R. Williams & Co. building) into modern storage garage and service station, 3-story, 130-95-ft., exp. end about \$40,000.

## Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

### Proposed Construction

Alabama—State Highway Comm., Woolsey Finnell, Highway Director, receives bids Jan. 25 for 9 roads, 31 bridges and guard rails: Elmore County—6.5 mi. gravel surface, between Elmore and Wetumpka, 16,500 cu. yd. gravel and binder; Elmore-Autauga Counties—16.5 mi. gravel surface, Elmore to Marbury; Autauga County—13.57 mi. gravel surface, between Prattville and Autauga; Hale County—bridges between Greensboro and Moundville; Lowndes County—guard rail between Ft. Deposit and Greenville, 25,000 lin. ft. galvanized cable; Montgomery County—guard rail on Montgomery-Luverne road, 70,000 lin. ft. galvanized cable, 2000 concrete posts; Autauga-Elmore Counties—6.60 mi. between Prattville and Robinson Springs; Russell County—guard rail on Federal Aid Project 178, between Seale and Girard, 50,000 lin. ft. galvanized cable, 1400 concrete posts.

Elmore County—6 drainage structures on Montgomery-Elmore and Robinson Springs-Prattville roads; one 36-ft., 34-ft., 85-ft. and 68-ft. timber bridges, concrete floor, double 6 and 8 culvert; Lamar-Fayette Counties—12 concrete and timber bridges between Vernon and Fayette, 40,100 lb. reinforcing steel, 171,200 F.B.M. treated timber; Tuscaloosa County—6 concrete and timber bridges between Tuscaloosa and Bessemer, Abernath overhead, Howton overhead crossing, bridge over Davis Creek, etc.; Cherokee County—16.22 mi. gravel surface, State Route No. 49, between Center and Georgia State line; Montgomery County—guard rail on Federal Aid project 155, between Montgomery and Lowndes County line, 25,000 lin. ft. galvanized cable.

In Conecuh County—concrete and timber bridges, State Route No. 23, between Evergreen and McKenzie, 34,900 F.B.M. treated bridge timber; Dale County—bridge over West Choctawhatchee River, State Route No. 22, Ozark to Abbeville; 76,000 lb. deformed bar reinforcement; Talladega County—12.69 mi. grading and draining, State Route No. 55, between Talladega and Ashland, 275,298 cu. yd. excavation; Clay County—10.49 mi. grading and drainage, State Route No. 55, between Ashland and Talladega, 232,584 cu. yd. excavation; Etowah County—15.85 mi. grading and draining, State Route No. 2, Attalla to Collinsville, 245,489 cu. yd. excavation; Lawrence County—11.72 mi. grading and draining, State Route No. 42, Moulton to Russellville, 127,433 cu. yd. excavation; Sumter County—5 concrete bridges, State Route No. 28, between Moscow and Livingston; plans on file; W. A. McCalla, State Highway Engr.

Ala., Birmingham—City, Eunice Hewes, Clk., plans expending \$50,000 to improve 7 streets, including Sixth, Cullum St., Fulton Ave.; A. J. Hawkins, City Engr.

Ala., Tusculumbia—State Highway Comm., W. Finnell, Chmn., Montgomery, plans completing Lee Highway from Tusculumbia to Margerum, Colbert County; N. P. Tompkins, County Judge; W. A. McCalla, State Highway Engr.

Ark., Pine Bluff—Annex No. 1, Street Improvement Dist. No. 99, Guy B. Smith, Engr., plans letting contract about Jan. 1 to pave 3132 sq. yd. Beach and Barraque St. to Fourth Ave. with 6-in. reinforced concrete.

Ark., Texarkana—City plans raising grade on Front St. and State Line Ave.; cost \$15,000. Address City Clk. See Financial News—Bond Issues Proposed.

Fla., DeFuniak Springs—Town, J. F. Howell, Clk., may let contract in about 60 days to pave circle, Liveoak Ave., Ninth and Eleventh Sts.

Fla., Fort Lauderdale—City, Glenn E. Turner, Clk.-Auditor, plans expending \$21,845, as city's share, to improve 4 street intersections; Rollin F. Ritter, City Engr.

Fla., Marianna—Jackson County plans road

building. Address County Commrs. See Financial News—Bond Issues Proposed.

Fla., Orlando—Orange County Commrs., B. M. Robinson, Clk., received low bids from C. A. Steed & Sons, 420 S. Poinsettia Ave., West Palm Beach, for 5 roads: 9 mi. Ocoee, Windemere and Winter Garden road, \$130,804; 15 mi. branch roads from Apopka-Tangerine-Maitland roads, \$192,683; 1 mi. Western Orange County, Clarcona, Apopka road, \$208,291; 15 mi. Southeastern part of county, pine Castle and Taft, \$194,843; 4.4 mi. Maitland-Apopka road, \$80,815.

Fla., Tampa—City, W. Lesley Brown, Mgr., receives bids Jan. 10 for 2353 sq. yd. 17 and 24 ft. wide, 2 1/2-in. vitrified brick pavement, asphalt filler in joints, on shell or limerock base, 2 1/2-in. asphalt block pavement, shell or limerock base, 1 1/2-in. natural rock asphalt, 5-in. cement concrete base, with 1-2 1/2-5 mix, 2-in. asphaltic concrete, on 5-in. cement concrete base, with 1-2 1/2-5 mix, or reinforced cement concrete, 6-in. thick, with 1-2-3 mix, asphaltic expansion joints; 1650 lin. ft. 4x18-in. granite, 7x16-in. concrete, 1-2-4 mix, and integral concrete curbs, with cement concrete pavement only, 1-2-3 mix; plans from Engineering Dept., Bureau of Streets.

Fla., West Palm Beach—State Road Dept., F. A. Hathaway, Chmn., Tallahassee, plans receiving bids to improve Road No. 25, across State Highway; J. L. Cresap, State Highway Engr.

Ga., Fitzgerald—City, J. H. Mayes, Mayor, plans paving and otherwise improving streets, sidewalks and alleys. See Financial News—Bond Issues Proposed.

Ga., Waycross—State Highway Comm., East Point, plans asphalt surfacing old Dixie Highway, from Waycross, Ware County, to Douglas, Coffee County; John N. Holder, Chmn.

Ga., Waycross—State Highway Board, John H. Holder, Chmn., Atlanta, lets contract Dec. 31 to furnish material and pave 3 roads: 3.8 mi. road, from Ware County line towards Alma; 6 mi. Alma-Hazlehurst road, from Alma; 12.24 mi. from this point into Baxley.

Ky., Vanceburg—Lewis County Commrs. plan improving Ohio River Highway from Greenup County line to Vanceburg; cost \$200,000. See Financial News—Bond Issues Proposed.

Louisiana—Louisiana Highway Comm., Frank T. Payne, Chmn., Baton Rouge, received low bids for 2 roads: East Feliciana Parish—7.479 mi. gravel Lindsay-Jackson Highway, Young & DeBritton, Zachary, \$46,867; LaSalle Parish—3.619 mi. gravel, Jena-Jonesville Highway, Lake Arthur Dredging Co., 561 V. Weiss Bldg., Beaumont, Tex., \$86,021. 11-20

La., Benton—Louisiana Highway Comm., Frank T. Payne, Chmn., Baton Rouge, received low bid from T. S. Clements, Bossier City, at \$331,880 for 12.935 mi. reinforced concrete, Bossier City-Arkana Highway. 11-17

La., Covington—City, Wallace M. Poole, Mayor, receives bids Jan. 12 for 9700 sq. yd. brick or concrete pavement on concrete base, Warrenite bitulithic, shell asphalt, sand stone rock asphalt, cold mix limestone rock asphalt or asphaltic concrete with sand-clay gravel aggregate (Finley Method) on concrete base and on asphaltic concrete base; plans from A. G. Munding, Engr., Weick Bldg., Baton Rouge.

La., Delhi—Mayor and Board of Aldermen receive bids Jan. 19 for 20,000 cu. yd. excavation, 5295 cu. yd. gravel, 3986 sq. yd. 6-in. reinforced concrete paving; plans from Chas. D. Evans, Const. Engr., 414 Levy Bldg., Shreveport.

La., De Quincy—City, W. E. Holbrook, Mayor, plans \$60,000 concrete paving in 1928.

La., DeRidder—Beauregard Parish Police Jury, Ward No. 6, plans Evangeline Highway, between Kinder and DeQuincy.

La., Monroe—Ouachita Parish Police Jury plans protection highway east of city, cost \$150,000. 12-8

Md., Baltimore—City, Board of Estimates, authorized paving 5 streets, including Bloomsbury, Byrd, Decatur; estimated cost \$44,400; Nathan L. Smith, Highways Engr.; C. F. Goob, Ch. Engr.; Wm. F. Broening, Mayor.

Miss., Forest—Mayor and Board of Aldermen receive bids Jan. 12 for grading, curbing, guttering, brick, concrete or asphaltic paving, and storm and sanitary sewers; plans from Massena L. Culley, Const. Engr.

Mo., St. Louis—City, W. W. Horner, Ch. Engr., Streets and Sewers Dist., plans expending \$7,500,000 next year for 1,500,000 sq. yd. street improvement; plans rebuilding

Twelfth Blvd., from Russell Blvd. to Sidney St.; cost \$56,000.

Mo., Shelbyville—Town plans street paving. Address Town Clk. See Financial News—Bond Issues Proposed.

North Carolina—State Highway Comm., Raleigh, receives bids in Jan. 4 roads: Mecklenburg County—widen 17 mi. Wilkinson Blvd., between Charlotte and Gastonia, from 40 to 60 ft.; 6-mi. hard-surfacing road, connecting Charlotte and Thrift; grading and structures on Route 204, connecting Hamlet, Richmond County, and North-South Carolina line; Gaston County—grading and structures, Routes 206, from Cleveland County line to Lincoln County line; Lester Ames, Ch. Highway Engr.

N. C., Durham—Durham County Commrs., H. L. Carver, Chmn., plan improving and building various roads; will sell bonds.

N. C., Greensboro—Guilford County Commrs. plan grading highway over northern route between Greensboro and High Point; C. O. Lowe, Maintenance Engr.

N. C., Rutherford—State Highway Comm., Raleigh, plans 4 mi. road, between Cliffs and Ellenboro, Rutherford County; Lester Ames, State Highway Commr.

Okla., Tulsa—City Comm., Herman E. Newblock, Mayor, receives bids soon to pave 15 streets, including Third, Fourteenth St., Norfolk and Wheeling Aves.

Okla., Watonga—State Highway Dept. plans road from Watonga, Blaine County, to Geary; Clark R. Mandigo, State Highway Engr.

S. C., Charleston—Charleston County Sanitary and Drainage Comm. receives bids Jan. 6 for sidewalks on Meeting Street road and King St. extension; plans on file; E. D. Jervey, Engr.

Tenn., Jonesboro—Dept. of Highways and Public Works, C. N. Bass, Ch. Highway Commr., Nashville, receives bids Jan. 16 for 5 mi. highway from Johnson City to Glanzstoff plant in Happy Valley; cost about \$200,000. 12-8

Tenn., Madisonville—Monroe County Court appropriated funds to grade and surface road between Tellico Plains and Mecca. Address County Commrs.

Tenn., Trenton—Dept. of Highways and Public Works, C. N. Bass, Ch. Highway Commr., Nashville, plans lateral roads throughout Gibson County; T. K. Happel, Chmn. Gibson County Highway Comm.

Texas—State Highway Comm., R. S. Sterling, Chmn., Austin, receives bids soon for 2 roads: DeWitt County, Stanley Kulawik, Judge, 8.25 mi. grading and bridges, Highway 109, between Yoakum and Hockheim; Travis County—grading and bridges, Highway No. 20, from Manor, west; R. A. Thompson, State Highway Engr.

Tex., Albany—Shackelford County, Richard Dyess, Judge, plans north and south highway through county; James E. Perle, County Engr.

Tex., Beaumont—City, Ollie J. Bloyd, Mgr., considering street improvement; R. C. Black, City Engr. See Financial News—Bond Issues Proposed.

Tex., Cameron—Milam County Commrs. Court considering public road from Rockdale and Cameron road via Bethlehem school to Rockdale and Davilla road.

Tex., Canyon—Randall County, B. F. Fronbarger, Judge, plans 5.522 mi. grading and bridges, Highway No. 9, from Canyon City, north; R. E. Dyatt, County Engr.

Tex., Center—Shelb County Commrs. Court plans road building, cost \$400,000. Address County Commrs. See Financial News—Bond Issues Proposed.

Tex., Centerville—Leon County Commrs. Court plans D. C. D. Highway through county; will sell bonds. Address County Commrs.

Tex., Clarendon—Donley County Commrs. considering road building. See Financial News—Bond Issues Proposed.

Tex., Coleman—City, E. P. Scarborough, Mayor, plans street paving; cost \$75,000. See Financial News—Bond Issues Proposed. 12-8

Tex., Corsicana—Navarro County, Norman Hicks, County Judge, plans road building in Road Dist. No. 12; cost \$30,000. See Financial News—Bond Issues Proposed. 11-24

Tex., Dallas—City Comm. and Dallas County, F. H. Alexander, Judge, considering road connecting South Marsalis Ave. with street in Trinity Heights and with south loop of Kessler Blvd., from entrance to Marsalis Park through park, through underpass under Gulf, Colorado & Santa Fe R. R. tracks up Thomas Hill; county plans extending Marsalis Ave. south to connect with Red Oak Drive; J. W. Gill, County Commr.

Tex., Edinburg—Hidalgo County Commrs.,

McAllen Dist., plan about 45 mi. feeder roads in dist.; cost \$1,000,000. See Financial News—Bond Issues Proposed.

Tex., Edinburg—Hidalgo County, H. W. Cameron, County Judge, plans road building in Road Dist. No. 5, cost \$1,000,000. See Financial News—Bond Issues Proposed.

Tex., El Paso—El Paso and Hudspeth Counties plan 3 roads, including Carlsbad Caverns road; branch from this road to New Mexico State line; paving 42 mi. Bankhead Highway, Hudspeth County; cost \$950,000; E. B. McClintock, El Paso County Judge; Fred Wilcox, County Engr. See Financial News—Bond Issues Proposed. 12-15

Tex., Fort Worth—City, O. E. Carr, Mgr., receives bids Jan. 3 to pave third section Camp Bowie Blvd., from West Seventh St. to Montgomery. Address City Engr. Lewis.

Tex., Galveston—State Highway Comm., R. S. Sterling, Chmn., Austin, may receive bids in Jan. for 10 mi. Galveston-Houston Highway, between Webster and South Hampton, Galveston County; R. A. Thompson, State Highway Engr.

Tex., Houston—City, George Woods, Mgr., received low bid from Smith Bros., American Natl. Bank Bldg., Dallas, at \$38,215, for 2-in. rock asphalt topping on Dunlavy St., Dallas to Welch Ave.; A. M. Arnold at \$6000, to pave Waugh Drive, between West Clay and West Dallas Ave.

Tex., Houston—Harris County, Norman Atkinson, Judge, plans 10,028 mi. grading, bridges and reinforced concrete pavement, Highway No. 19, Kuykendall Road, to Spring Creek; estimated cost \$320,000; A. J. Wise, County Engr.

Tex., Llano—City plans paving 2 business streets. Address City Clk.

Tex., Palestine—Anderson County, E. H. Shelton, Judge, plans paving Highway No. 43, to Trinity River, to connect with Freestone County's paved highway, under construction.

Tex., Panhandle—Carson County, A. A. Callaghan, County Judge, plans surfacing Highway No. 117 from Panhandle to Borger; Larry O. Cox, Engr.

Tex., Panhandle—Carson County Commrs. Court, Roy Tribble, White Deer, Commr., may build highway to Big Delaney Pool in western Gray County.

Tex., Plainview—Hale County, George L. Mayfield, Judge, plans hard surfacing Highway No. 9; J. W. Puckett, Highway Engr.

Tex., Raymondville—Willacy County Commissioners may establish Road Dist. No. 3, and hard-surface roads in dist.; cost \$650,000. See Financial News—Bond Issues Proposed.

Tex., Richmond—Fort Bend County, W. I. McFarlane, Judge, plans 14,544 mi. grading and bridges, Highway No. 12, from Rosenberg to Wharton County line.

Tex., Rusk—Cherokee County, J. J. Bolton, Judge, plans hard surfacing Highway No. 43, from River to Jacksonville, through county.

Tex., San Antonio—City, Paul Steffer, Street Commr., plans expanding \$15,000 to open and extend North St. Mary St., through to intersection of Jones Ave and Camden St.

Tex., San Antonio—See Drainage, Dredging and Irrigation.

Tex., San Antonio—Bexar County Commrs. receive bids Dec. 30 for drainage structures on 4 roads; On Culebra Road, at Camino Santa Marie; Woodlawn Ave., at Bandera Road; Jackson-Keller Road, on branch of Olmos Creek; Cincinnati Ave., between Camino Santa Maria and Bandera Road; plans on file; G. H. Collins, Engr.

Tex., Seguin—Guadalupe County, J. B. Williams, Judge, plans 10,584 mi. grading and bridges, Highway No. 3, Seguin-Luling Road, from Seguin to point about 3 mi. east of Kingsbury; Capt. A. Schlafl, Engr.

Tex., Sterling City—Sterling County Commrs. plan 30-mi. Highway No. 9 through county; cost \$201,000. See Financial News—Bond Issues Proposed. 12-15

Tex., Vernon—Wilbarger County, J. V. Townsend, Judge, plans 5,950 mi. 18-ft. Bates type concrete pavement, Highway No. 28, from Oklaunion to Red River, including drainage structures; cost \$170,000; John B. Nabors.

Va., South Norfolk, Norfolk—City, H. B. Gibson, Mayor, considering street improvement; cost \$200,000. See Financial News—Bond Issues Proposed.

#### Contracts Awarded

Arkansas—State Highway Comm., Dwight H. Blackwood, Chmn., Little Rock, let contracts for 31 roads and 6 bridges; Lee County—843 lin. ft. treated timber pile bridges, State Highway No. 501, Marianna southeast road; J. F. Mullins, 1818 Chesnut St., Pine

Bluff, \$24,090; Ashley County—11½ mi. grading, drainage structures and gravel surfacing, Highway No. 13, Hamburg-North Road, Johnson Team and Dray Co., N. Broadway Bridge, Little Rock, \$109,044; Drew County—16 mi. grading, drainage structures and gravel surfacing, Highway No. 13, Monticello-South Road, J. P. McNulty, 2121 Chery St., Pin Bluff, \$157,446; 13 mi. Highway No. 220, Monticello-West Road, J. P. McNulty, 2121 Chery St., \$91,522; Pike County—140 lin. ft. reinforced concrete bridge over Saline Creek, Highway No. 26, Delight-Murfreesboro Road, W. P. McGeorge & Co., ft. of Nebraska St., Pine Bluff, \$13,119.

In Hempstead County—6 mi. grading and drainage structures, Ozan-Washington Road, J. M. Howell, De Queen, \$22,793; Miller County—10 mi. grading and drainage structures, Highway No. 71, Texarkana-Sulphur River Road, J. R. Miller, Texarkana, \$55,639; 10½ mi. Highway No. 71, Texarkana-Sulphur River Road, McGuire & Cavender, Texarkana, \$52,872; Clark County—4 mi. Highway No. 51, Arkadelphia-Donaldson Road, Browne & Ross, Arkadelphia, \$47,540; Montgomery County—9 mi. grading and drainage structures, Highway No. 27, Norman-Mt. Ida Road, Barker Bros., Amarillo, Tex., \$73,212; Washington County—10½ mi. grading and drainage structures, Highway No. 45, Fayetteville-Prairie Grove Road, Cole Bros. & Denniston, Alma, \$44,090.

In Benton County—582 lin. ft. treated timber bridge and redecking adjacent steel span on Goforth Bridge over Illinois River, between Siloam Springs and Cincinnati, Highway No. 99, C. M. Greene, Rogers, \$13,685; Scott County—10½ mi. grading and drainage structures, Highway No. 71, Mansfield-Waldron Road, Altman-Rodgers Co., McAlester, Okla., \$72,840; Sharp County—11½ mi. Highway No. 11, Evening Shade-Ash Flat Road, Davis Construction Co., Booneville, Mo., \$60,447; White County—12 mi. crushed stone surface, Highway No. 60, Beebe-El Paso Road, Malvern Construction Co., Malvern, \$86,448; Prairie County—17½ mi. grading, drainage structures and gravel surface, Highway No. 11, Hazen-Des Arc Road; Johnson Team and Dray Co., N. Broadway Bridge, \$119,344.

In Hot Springs County—12 mi. Highway No. 7, Bismark-North Road and South Road, George W. Nickels & Son, Hot Springs, \$96,363; Lonoke County—17 mi. Highway No. 31, Lonoke-Beebe Road, Ellis & Lewis, 507 Surety Bldg., Muskogee, Okla., \$114,240; Hot Springs and Garland counties—489 lin. ft. reinforced concrete bridge, Highway No. 70, Hot Springs-Glenwood Road, Cook & Ransom, Ottawa, Kansas, \$35,599; Ouachita County—5½ mi. Highway No. 24, Chidister-Nevada County Line Road, S. B. Boyd, Columbia, Miss., \$49,605; 1½ mi. gravel surface Highway No. 24; Camden-Chidister Road, J. C. Elliott & Co., Leola; Dallas and Cleveland counties—10 mi. Highway 167, Fordyce-North Road, J. P. McNulty, \$73,936; Columbia County—17½ mi. Highway No. 19, Magnolia-South Road, Tarrant & Miles, El Dorado, \$118,288.

In Cleveland County—7 mi. Highway No. 15, Pansy-South Road, J. A. Perdue & Co., 1521 Linden St., Pine Bluff, \$39,412; 6½ mi. Highway No. 19, Waldo-Nevada County Line Road, Tarrant & Miles, \$40,782; Ouachita County—5½ mi. Highway No. 2, Stephens-Magnolia Road, Hill Contracting Co., Little Rock, \$57,703; Dallas County—9 mi. Highway No. 9, Princeton-Holly Springs Road, J. A. Perdue & Co., \$76,110; Ouachita County—8½ mi. Highway No. 167, Smackover-Camp-Pope County—9 mi. Highway No. 105, Atten Road, L. T. Campbell, El Dorado, \$80,240; kins-Nector Road, Lakeside Bridge and Steel Co., Dardanelle, \$66,952; Logan County—2½ mi. Highway No. 116, Booneville-State Sanatorium Road, Blythe & Isom, Booneville, Mo., \$25,610.

In Boone County—388 lin. ft. reinforced concrete bridges and box culverts on Highway No. 65, Harrison-Omaha Road, Blackshire & Blackshire, Harrison, \$36,906; Marion County—5 mi. Highway No. 14, Yellowville-Lead Hill Road, North Arkansas Construction Co., Yellowville, \$39,883; Lawrence County—11 mi. Highway No. 63, Imboden-Powhatan-Black Rock Road, Davis Construction Co., Booneville, \$120,433; Craighead and Poinsett Counties, 9 mi. Highway No. 18, Cash-Pitts Road, J. M. Howell, De Queen, \$684,162; Craighead County—7 mi. Highway No. 1, Greene County Line-Jonesboro Road, Bunnell & Mack, Paragould, \$62,080; Poinsett County—92 lin. ft. reinforced concrete bridge, Highway No. 63, Marked Tree-Tyrone Road, V. W. Clayton, Tyrone, \$16,435; Prairie County—7 mi. Highway No. 3, Elm-Roe Road, W. P. McGeorge & Co., ft. of Nebraska St., Pine Bluff, \$56,719. 12-8

Fla., Hollywood-Goodcharles & Darrow have contract at \$97,000 for sidewalks, curbs and streets in Hollywood Beach.

Fla., Sarasota—Sarasota County Commrs., Norman G. Corson, Engr., let contract to

Hazen & Grimes at \$70,565 for 5 roads, totaling 7.5 mi. 16-ft. 6-in. lime rock base, surface treated roads. 12-1

Ga., Baxley—City let contract to Murray Construction Co., Holston Natl. Bank Bldg., Knoxville, Tenn., at \$75,000 to pave main business streets.

Ky., Morehead—Ashland Supply Co., reported, has contract to surface 26 mi. Morehead-Louisiana highway, between Morehead, Rowan County, and Sandy Hook.

Ky., Louisville—City, Board of Public Works, let contract to Andrews Asphalt Paving Co., Inter-Southern Bldg., to pave with Amesite, West Eighth St., Main to Market; Michael M. Boland, City Engr.

Md., Baltimore—Board of Awards let contract to American Paving and Contracting Co., Montebello Ave. and B. & O. R. R., at \$58,343 to pave, with sheet asphalt, Overland Ave., from Liberty Heights to Pimlico Circle, and Longwood St., from Gwynns Falls Parkway to Carlisle Ave.; Wm. F. Broening, Mayor. 12-8

Miss., Pascagoula—Jackson County Board of Supvrs., Fred Taylor, Clk., and Road Protection Comm., F. H. Lewis, Chmn., let contract to Miller, Hutchinson Co., Lake Charles, at \$460,508, for about 10,000 ft. road protection and Beach Driveway, between Louisville and Nashville R. R. Bridge and Halstead Road, Ocean Springs. 12-1

Missouri—State Highway Dept., Jefferson City, let contracts for 14 roads and 3 bridges; Cole and Osage counties—reflooring .151 mi. bridge, O. O. Fuller, Nevada, Mo.; Clark County—3.556 mi. 18-ft. gravel road, Route 4, Stoner-Deering, Chamolis, Mo.; Dunklin County—.956 mi. 12 and 16 ft. gravel, Pittsburg-Des Moines Steel Co., Des Moines, Ia.; Monroe County—2.746, 2.133 and 4.315 mi. 18-ft. gravel, Routes 26, 24, Pioneer Construction Co., 270 Glover Bldg., Kansas City, Mo.; St. Clair County—.550 mi. 18-ft. gravel, Route 13, S. A. Robertson Construction Co., 1910 Forest St., St. Louis, Mo.; Clark County—3.517 mi. 30-ft. graded earth, Route 4, Stoner & Deering; Barry County—20-ft. graded earth, Route 37, Kelly & Underwood, Granby, Mo.; Bollinger County—3.802 mi. 30-ft. graded earth, Route 51 A. M. E. Gilloz, Monett, Mo.; Clay County—.33 mi. 30-ft. graded arth. Fritzlen & Huffer, Kansas City, repairing road, Route 69, A. E. Ealesby, Jr., Independence, Mo.; Taney County, painting 80-ft. bridge, Route 78, Joseph Day, St. Joseph, Mo.; Stone County, painting 480-ft. bridge, Route 43, Joseph Day, Jr., St. Joseph; tentative awards: Green County—4.327, 4.690 and 4.116 mi. 30-ft. graded earth, Route 13, Stigall Construction Co., Springfield, Benton and Talmadge Sts. 12-1

N. C., Wilmington—City Commrs. let contract to W. L. DeRossett, 101 South Third St., at \$7062, to repave Third St. and Market St. from Third to river with sheet asphalt on concrete base.

N. C., Wilmington—James Donnelly, reported has contract for several thousand feet concrete sidewalks in Forest Hills Development.

Okla., Tulsa—City, Herman E. Newblock, Mayor, let contract to Western Construction Co., 229 N. Nogales St., at \$31,324 to pave Indianapolis Ave., Twelfth and Jamestown St.

S. C., Charleston—Charleston County Sanitary and Drainage Comm. let contract to Sam Finley, Inc., 212 W. North Ave., Atlanta, Ga., for 6 mi. asphalt topping on 4 roads: 1.585 mi. Montague and Durant Ave., North Charleston, from Meeting St. highway to navy yard and port terminals road; \$9,727; 1.6 mi. Rifle Range Road, on Mt. Pleasant, \$11,850; 1.615 mi. Meggett Road, Charleston-Savannah Highway to Meggett, \$10,157; 1.326 mi. Wappoo Road on James Island, off Folly Beach Road, \$333. 11-17

Tennessee—Dept. of Highways and Public Works, C. N. Bass, Ch. Highway Commr., Nashville, let contracts for 13 roads and 12 bridges; Shelby County—11.204 mi. grading and drainage, near Bartlett and Fayette County line, also 3 bridges over 20-ft. span, S. K. Jones Construction Co., Memphis, \$96,058; 1.819 mi. grading and drainage, between Memphis and city limits; bridge over 20-ft. span, Southern Bridge Co., Dyersburg, \$19,461; Carroll County—.976 mi. asphaltic concrete pavement, Highway No. 22, between Huntingdon and McKenzie, Southern Paving Construction Co., Chattanooga, \$227,809; 12.727 mi. grading and drainage, between Henderson County line and Huntingdon, W. R. Aldrich & Co., Dyersburg, \$91,078.

In Knox County—5.728 mi. grading and drainage, between Three Points and Grainier County line, E. A. Wood & Co., Andrews, N. C., \$82,521; Hawkins and Greene Counties—17.442 mi. cement concrete, Highway No. 34, between Hamblen County line



and Greenville, A. A. Davis & Co., Kansas City, Mo., \$376,638; Putnam County—14.134 mi. grading and drainage, Highway No. 74, between Cookeville and Monterey, bridge over 20-ft. span, Jamieson Bros., High Point, N. C., \$112,570; Loudon County—4.342 mi. grading and drainage, between Lenoir City and Tennessee River, Jamieson Bros., \$77,873; 6.661 mi. grading and drainage, between Monroe County line and Loudon, also bridge, Calloway & Fisher, Lenoir City, \$61,405.

In Monroe County—6.466 mi. grading and drainage between McMinn County line and Loudon County line, Jamieson Bros., \$45,866; Dyer County—15.5 mi., between Holoise and Dyersburg, W. R. Aldrich & Co., \$285,150; Hawkins County—189 mi. grading and drainage at Bulls Gap, W. H. Anderson Construction Co., Asheville, N. C., \$7678; Shelby County—build about 500 ft. driveway on Harahan Bridge across Mississippi River, between Memphis and Arkansas shores, Atlantic Bridge Co., Greensboro, N. C., \$151,898; asphalt planks bridge flooring, Phillip Carey Co., Cincinnati, Ohio, \$36,644; Chester County—4.244 mi., Highway No. 5, Henderson to Madison County line, W. R. Aldrich, \$47,593; 3 bridge over 20-ft. span, F. G. Hall, Martin, \$32,298. 12-1

Tennessee—Dept. of Highways and Public Works, C. N. Bass, Ch. Highway Commr., Nashville, let contracts for 6 roads and 21 bridges: Humphreys County—12.189 mi. grading and drainage, Highway No. 1, between Tennessee River and Waverly, R. E. Martin, Carthage, Tenn., \$196,383; Madison County—11.422 mi. grading and drainage, Highway No. 5, between Chester County line and point near Jackson, S. H. Hall, Newbern, Tenn., \$104,447; 7 bridges over 30-ft. span, F. V. Ragdale, Dermon Bldg., Memphis, \$58,403; Giles County—0.76 mi. concrete and steel bridge, State Highway No. 15, over Richland Creek, Montgomery & Parker, Rockport, Ind., \$47,514; Marshall County—0.28 mi. concrete deck girder bridge, Highway No. 51, over Rich Creek, T. O. Bagley & Co., Fayetteville, \$13,099; Ohio County—6 concrete pile, timber pile and steel bridges on .803 mi. Highway No. 41, between Kenton and Union City, B. and C. Peterson & Barnhart, Montgomery, \$239,399.

In Hancock County—0.80 mi. concrete and steel bridge, Highway No. 66, over Clinch River, W. H. Shons Co., Freeport, Ill., \$62,103; Monroe County—2.11 mi. concrete and steel bridge, Highway No. 64, over Little Tennessee River, Southern Construction Co., Inc., 615 S. 11th St., Birmingham, \$155,480; Hawkins County—1.89 mi. grading and drainage, Highway No. 34, Bull's Gap, W. H. Anderson Construction Co., Medical Bldg., Asheville, N. C., \$7678; No. 195-B, bridges, Pittsburgh-Des Moines Steel Co., Des Moines, Ill., \$56,983; Putnam County—10.157 mi. grading and drainage, Highway No. 24, between Smith County and State Aid Project No. 123-D, Gorell, Barrow & Kirkpatrick, Russellville, Ky., \$86,599; McMinn County—2.841 mi. grading and drainage, Highway No. 2, between Athens and Federal Aid Project No. 60, F. V. Ragdale; Marion County—4 concrete girder bridges, State Highway No. 2, between State Aid Project No. 170, and Jasper, tentatively to Albert Lyons, Rogersville, \$56,868. 12-1

Tex., Canyon—City, C. H. Jarrett, Mayor, let contract to Panhandle Construction Co., Lubbock, for 36 blocks 30-ft. vitrified brick, on natural foundation, paving, curbing, gutter and sidewalks; 1 mi. 6-in. water main, and sewer extension; estimated cost \$140,000. 12-15

Tex., Denton—Walker Jagoe has contract to pave 8 blocks W. Sycamore St. with asphaltic cement on reinforced concrete base. Address City Clk.

Tex., San Angelo—Tom Green County, J. T. Mathison, Clk., let contract to W. S. Thomson to pave road from Wall east to county line; T. J. Kelly, County Engr.

W. Va., Clarksburg—Harrison County Commrs. Court, L. Loudin, Clk., let contract to Paul S. Hornor Co., Goff Bldg., for 1 mi. stone base road, Jones Run road. 12-8

W. Va., Moundsville—Marshall County Commrs. let contract to John A. Wilhelm, Elm Grove, at about \$11,200 for grading and filling right of way for ½ mi. new State road, approaching Moundsville.

## Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ark., Fort Smith—City, J. H. Parker, Mayor, reported, construct storm sewers; W. H. Evans, City Engr. 11-10

D. C., Washington—G. B. Mullin Co., 1296 Upshur St. N. W., reported, has contract for Peabody St. sewer; Loomis-Wetzel Contracting Co., 1125 14th St. N. W., for Kenilworth St. sewer; W. A. Pate, Jr., Evans Bldg., for Kansas Ave. service sewer and 10th St. replacement sewer; Jos. A. Forbes Co., Inc., 19th and H Sts., service sewer.

Fla., Orlando—Cox & Bryson, Smith Bldg., reported, have contract for sewers on Gore, Brambroo, Florida, Cherokee and Richmond Sts.

La., Pineville—See Water Works.

Mo., Poplar Bluff—Tidd & Cole, Hutchinson, Kan., reported, has contract for storm sewer; cost \$65,000.

Mo., St. Louis—City, W. W. Horner, Ch. Engr., Streets and Sewers, reported, expend \$5,000,000 during 1928 for sewers, including eastern Rock Branch sewer draining north central St. Louis and River Des Pres sewer draining Forest Park and unfinished sewer work for 1927.

Mo., Shelbyville—City, reported, plans issuing bonds for installing water and sewerage system. Address The Mayor.

N. C., High Point—See Water Works.

Okla., Apache—City, reported, plans sewer system. Address The Mayor.

Okla., Chickasha—City, reported, plans sewers in District No. 60. Address The Mayor.

Okla., Lamont—City, reported, plans sewer system and disposal plant. Address The Mayor.

Okla., Mooreland—Town plans constructing sewer system. See Water Works.

Okla., Ponca City—City, reported, plans installing sewers in Hampton Heights Addition. Address The Mayor.

Maryland—W. H. Angle, Hagerstown, has contract for sewerage pumping stations at Gaithersburg and Washington Grove, Washington Suburban Sanitary District; Robt. B. Morse, Engr., Hyattsville.

Tenn., Nashville—City, S. H. McKay, Clk., reported, let contract to E. T. Lewis, 1902 Elliott Ave. for brick storm sewer.

Tex., Beaumont—City, reported, votes on \$700,000 sewer and street bonds. See Financial News—Bond Issues Proposed.

Tex., Big Lake—See Water Works.

Tex., Canyon—See Roads, Streets, Paving.

Tex., Edinburg—Wilson & Seward, reported, has contract for water works extensions.

Tex., Frankton—See Water Works.

Tex., Houston—City, W. A. Moore, Sec., reported, rejected bids for replacing clay pipe over trestle at Payne St. and Little White Oak Bayou with cast iron pipe; will call for new bids.

Tex., San Saba—See Water Works.

Va., Boydton—See Water Works.

Va., Richmond—City, reported, extend \$100,000 on guttering and sewerage on Petersburg turnpike.

W. Va., Huntington—City let contract to B. M. Robinson, Coal Exchange Bldg., for \$40,000 sewer system; A. B. Maupin, City Engr. 12-15

W. Va., Huntington—City, Homer L. Yeich, Commr. of Streets, receives bids Jan. 9 for constructing lateral sewers. See Want Section—Bids Asked.

## Telephone Systems

Fla., Gainesville—Board of Control, University of Florida, reported, erect control building and 2 steel towers for new radio station, reported, let contract to Graybar Electric Co., Inc., 100 E. 42nd St., New York City, at \$55,960, for transmitting apparatus.

S. C., Sumter—Continental Telephone Co., St. Paul, Minn., reported, acquired the Sumter Telephone Co., local exchange will continue to operate under same name, with Geo. K. Gann, Pres.; O. A. Knell, Sec., Treas. and Gen. Mgr.; probably expend about \$50,000 on improvements and extensions.

Tenn., Chattanooga—Southern Bell Telephone Co., reported, plans expenditure of \$2,500,000 to \$3,000,000 in 1928; L. L. Billups, Mgr.

Tex., Bandera—J. R. Bellinger, San Antonio, reported, acquired telephone system from J. F. Tait; remodel plant; extend rural lines.

Tex., Galveston—Southwestern Bell Telephone Co., James S. Hanna, local Mgr., reported, erect 1-story, 60x85-ft. brick building, use for store room, office and storage garage at Twenty-eighth and New Strand.

Va., Roanoke—Chesapeake and Potomac Telephone Co., N. O. Wood, Mgr., reported, plans expending \$80,000 in improvements and extensions to local service; work under way and installation of new equipment probably completed by May 15, 1928.

Tex., San Marcos—San Marcos Telephone Co., Merton Swift, Mgr., reported, let contract to Geo. L. Kennedy & Sons for new building, concrete, tile and stucco; install modern type switchboard, purchased; David Donaldson, Archt. in charge of construction. 12-1

## Textile Mills

Alabama—Robert & Co., Inc., Atlanta, Ga., have been engaged to handle final appraisals of mill properties for proposed yarn mill merger being promoted by Flint & Co., Inc., 25 Broad St., and the Farish Co., 100 Worth St., both New York; consolidation will effect approximately 150 mills in North Carolina, South Carolina, Georgia, Alabama and Tennessee, representing about 1,500,000 spindles; Robert & Co., Inc., will use several engineering groups with view of completing appraisal work as soon as possible. 12-22

Ga., Dalton—Dalton Hosiery Mills increased capital by \$500,000, changed name to Westcott Hosiery Mills.

North Carolina—Industrial Rayon Corp., 200 Madison Ave., New York City, and 98th and Walford Sts., Cleveland, Ohio, has under consideration site for textile mill in the South; definite location to be made in about 30 days; construction to begin this spring; J. E. Sirrine & Co., Engrs., Greenville, S. C.

N. C., Greensboro—Proximity Mfg. Co., reported, receive bids Jan. 3 for erection of additional unit; built-up roof; reinforced concrete frame; brick walls; cost \$100,000; J. E. Sirrine & Co., Engrs., Greenville, S. C. 11-24

N. C., Kings Mountain—R. S. Dickson & Co., Inc., Third Trust Bldg., Gastonia, and 40 Exchange Place, New York City, and Peoples Security Co., Peoples Office Bldg., Charleston, S. C., are offering \$450,000 first mortgage 6% serial gold bonds of the Neisler Mills, Inc.; company owns 100 acres on which is located 3 manufacturing plants and a dyeing and mercerizing plant; manufactures draperies, bedspreads and upholstery goods; distributed by Cannon Mills; purpose of issue to reimburse company for recent erection and equipment of dyeing and mercerizing plant.

Tenn., Union City—Chamber of Commerce and Lions Club, reported, interested in establishment of cotton factory.

## Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ark., Bebee—City, reported, contemplates sewer system for entire town. Address The Mayor.

Ark., Searcy—City, reported, plans water works plant. Address The Mayor.

D. C., Washington—Comms. of District of Columbia, Daniel E. Garges, Sec., has under consideration extension and enlargement of certain water mains in congested section of city; cost \$459,350.

Fla., Safety Harbor—Boyce & Co., Clearwater, reported, low bidders for water extensions and improvements.

La., Pineville—City, reported, engaged Swanson-McGraw, Inc., Balter Bldg., New Orleans, Conslt. Engr., for water works and sewerage system; \$137,000 available.

Md., Catonsville, Br. Baltimore—Board of Awards receives bids Jan. 4 for furnishing and delivering pumping equipment. See Want Section—Bids Asked.

Mo., Cuba—City contemplates municipal water works; will vote on \$32,500 bonds; W. S. Merkle, Engr., 414 N. 12th Blvd., St. Louis.

Mo., Dixon—City contemplates water works; will vote on \$45,000 bonds; W. S. Merkle, Engr., 414 N. 12th Blvd., St. Louis.

Mo., Shelbyville—See Sewer Construction.

N. C., Asheville—Trustee of Woodfin Water District, reported, acquired 2000 acres mountain land on Reems Creek for use in development of reservoir and distribution system for Woodfin district; cost \$400,000; preliminary surveys by Charles E. Waddell & Co., Engrs., Jackson Bldg.; contract for construction work let to Kelly-Wilson Co.

N. C., Greensboro—City, P. C. Painter, Mgr., receives bids Jan. 10 for addition to pumping station, etc. See Want Section—Bids Asked.

N. C., Hickory—City, reported, ready to begin construction work on Catawba River intake as soon as engineers have plans for project prepared; H. L. Yoder, City Mgr.

N. C., High Point—Elliott Building Co., Hickory, received contract for water and sewer improvements. 12-15

Okla., Canute—City, A. M. Broadfield, Pres. Board of Trustees, advises city is not putting in water system, no bonds have been voted, nor is there liable to be. 12-15

Okla., Crescent—F. L. Brown, 410 E. Logan St., Guthrie, reported, has contract for water works extension.

Okla., Fairfax—City, reported, defeated \$15,000 water extension bonds. Address The Mayor.

Okla., Mooreland—Town voted \$65,000; bonds; construct water works plant; install pumping plant for well, 6, 4 and 2-in. cast-iron pipe; 50,000 gal. elevated tank; pumps, motors, automatic switch, etc.; also sewer system; date of opening bids not set; E. C. Jones & Co., Engrs., Enid. See Want Section—Machinery and Supplies.

Okla., Ponca City—City, reported, let contract to Earl W. Baker Co., 408 Medical Arts Bldg., Oklahoma City, for water works extensions.

Okla., Tahlequah—Carrothers-Huggins, Inc., 6803 E. 39th St., Kansas City, Mo., has contract at \$54,000 for water works improvements, including 2½-mile cast iron pipe, earth dam, concrete core wall, cyclopean concrete spillway; Black & Veatch, Consult. Engrs., 700 Mutual Bldg., Kansas City, Mo. 12-22

Okla., Vinita—City, reported, making plans for enlarging filter plant. Address The Mayor.

Tex., Albany—A. M. Barker, 303 Foster St., Dallas, has contract at \$27,000 for filtration plant of 250,000-gal. capacity; 9000 ft. of 6-in. and 500 ft. of 8-in. cast-iron Bell and spigot pipe; city will purchase filtration equipment. 12-15

Tex., Big Lake—City, J. M. Moore, Mayor, reported, plans improvements to water works and sewerage system.

Tex., Brownsville—Delta Development Co., care of E. C. Couch, Weslaco, reported, plans water works system.

Tex., Canyon—See Roads, Streets, Paving.

Tex., Dickinson—Dickinson Ice and Fuel Co., reported, plans 50,000 gal. tank on 100-ft. tower; construction probably by day labor.

Tex., Edinburg—Wilson & Seward have contract for enlargement of water works.

Tex., Frankston—City, M. E. Cook, Mayor, reported, plans water works, sewerage system and disposal plant.

Tex., Menard—City receives bids Dec. 29 for water mains and appurtenances. See Water Works—Bids Asked.

Tex., San Saba—City voted water and sewer bonds. See Financial News—Bond Issues Proposed.

Tex., Silverton—City votes Jan. 10 on \$35,000 water works bonds. Address City Sec.

Va., Arlington—English Construction Co., 1311 H St. N. W., Washington, and McCay & Kirtland, Equitable Bldg., Baltimore, Md., reported, estimating on water system. 12-22

Va., Boydton—City contemplates installation of water and sewer system; J. B. McCrary Engineering Corp., Atlanta, Ga., will design and supervise improvements.

### Woodworking Plants

Ark., McGehee—H. T. Wheeler, Arkansas City, reported, contemplates establishing furniture factory, manufacture beds, tables, etc.

Ark., Ola—C. E. Forrester, reported, will rebuild burned stove mill.

N. C., Asheville—A \$30,000,000 consolidation, reported, by which Albert Pick, Barth & Co., Inc., 32 Cooper Sq., New York, and Chicago, Ill., will control group of furniture factories and chain of wholesale and retail furniture establishments; companies included are Carolina Wood Products Co., Asheville, N. C.; Federal Metal Bed Co. and Montauk Metallic Bed Co. of Hoboken and Brooklyn; Sterling Piano Co.; Federal Furniture Factories, Inc.; Irving Furniture Factories, Inc.; Rockford Sales Corp.; Roessler Furniture Co.; Stuart Furniture Co.; Outlet Co.; Ludwig Furniture Co.; Irving H. Isaacs will be president of new company; Ben Lauterstein, Sec. Gen. Mgr.; all companies will be consolidated under one management; each unit will be operated independently; Albert Pick, Barth & Co., Inc., are successors to Albert Pick & Co., 212 W. Randolph St., Chicago, Ill.

N. C., Charlotte—Southern Sash and Door Co., H. D. Gray, Pres., 11 David St., Greenville, S. C., reported, plans establishing \$100,000 plant; employ about 25 to 30 persons; J. T. Creighton Greenville plant Mgr. Company advises: Am opening an addition to present business, renting building, will have no machinery or equipment purchases.

N. C., West End—Sandhill Furniture Corp. has new plant; install woodworking machinery, etc., for manufacture plain and antique furniture. See Want Section—Miscellaneous.

Tenn., Martin—R. A. Nance of Gleason, reported, plans moving hamper factory to Martin, employ from 30 to 60 persons.

## FIRE DAMAGE

Ark., Subiaco—Wing of Subiaco Abbey, Order of St. Benedict.

Ky., Covington—Building occupied by Chester W. Carr Carving Co., loss \$35,000; H. A. Schroetter Realty Co., 429 Madison Ave., owner.

Ky., Elwood—Kentucky Block Fuel Co. store and office; loss \$40,000.

Ky., Heidelberg—Heidelberg Bending Works factory; loss \$82,000.

Ky., Lexington—Lexington Cadillac Co.'s building at Main and Dewese Sts., loss \$100,000.

La., Mamou—O. L. Fuselier Rice mill, together with 10,000 pockets of rice and warehouse; loss \$70,000.

Md., Hagerstown—Grain storage elevator of Stickels Mills; loss \$25,000.

Md., Hyattsville—Wm. Chaney's delicatessen store and residence, Melwood on Marlboro Pike.

Md., Kingsville—Frank Carroll's residence, Belair Rd.

Miss., Biloxi—Building occupied by Stone County Enterprise Co., Bond Grocery Co., Chester J. Parke's bakery; loss \$12,000; owned by O. L. Bond.

## BUILDING NEWS

### BUILDINGS PROPOSED

#### Association and Fraternal

Miss., Meridian—Knights of Pythias, G. C. Kendall, Pres., remodel 3-story brick clubhouse, Ninth and 22d Sts.; new heating plant, plumbing, electric wiring, built-up composition roof, wood floors, struct. steel, iron work; stores on first floor, offices on second, lodge rooms, kitchen, etc., above.

Miss., Meridian—Mississippi Grand Lodge, F. & A. M., receives preliminary plans and bids Dec. 28 for boys' dormitory, Masonic Home; 12-in. brick walls, wood lath and plaster partitions, 2 stories, 40x100 ft., with 10-ft. concrete porch, hardwood floors, concrete foundation, asbestos shingle roof; cost \$27,000. Address J. H. Johnson, Supt., Masonic Home, Edwards Hotel, Jackson, Miss.

Miss., Picayune—Following contractors estimating on Y. M. C. A. building, bids Jan 5: Beckelheimer & Small, Box 355, Gulfport, Miss.; Dudley & Wike Construction Co., Stern Bldg.; Geary-Oakes Co., Inc., Q. & C. Bldg.; J. A. Haase, 916 Union St., all New Orleans, La.; Rathbone DeBuys, Archt., Hibernia Bldg., New Orleans. 12-15

#### Bank and Office

Ga., Macon—Chas. H. Richardson, Georgia Casualty Bldg., erect \$85,000 Medical Arts Bldg.; ready for bids about Feb. 1; brick and steel skeleton, wood floors and partitions, 3 stories, 65x95 ft., linoleum flooring, concrete foundation, tar and gravel roof; Hentz, Adler & Shutze, Archts., 1330 Candler Bldg. See Want Section—Building Material and Equipment.

Ky., Catlettsburg—Kentucky National Bank, Frank C. Gibbs, Cashr., erect bank building, Division and Louisa Sts.; probably 2 stories.

Ky., Louisville—Almstedt Bros., Brokers, 119 S. Fifth St., remodel building, 425 W. Market St., for quarters.

Miss., Jackson—Mississippi Farm Bureau Cotton Assn., 236½ E. Capitol St., plans office building.

Mo., St. Louis—Yeckel-Earickson & Co., Inc., 2925 S. Broadway, remodel office building, 2542 Gravois Ave.; brick, 3 stories, 50x70 ft.; cost \$50,000; Leonard Haeger, Archt., 3844 Utah St.

Miss., Meridian—Residences of A. H. Wesson, Fred Clifton and D. Windows; loss \$15,000.

Mo., St. Louis—Residence near Jefferson Barracks, owned jointly by Mrs. Melville L. Wilkinson and E. D. Nims, 1010 Pine St.; loss \$40,000.

Mo., St. Louis—Imperial Building at 922 Pine St.; loss \$12,000.

N. C., Selma—N. E. Ward's residence, Anderson St.

N. C., Statesville—Main building of Hall Hosiery Co.'s plant; loss \$60,000.

Okla., Ardmore—Solomon's Bakery, Ernst News Stand, Harry Finestone Tailoring Co., office of Lloyd O'Dell; loss \$60,000.

Okla., Enid—Champlin Refining Co.'s general offices.

Okla., Tulsa—E. S. Johnson's residence, 31st St. and Lewis Ave.; loss \$85,000.

S. C., Orangeburg—Boiler room of D. A. Sprinkle's hardwood lumber mill.

Tenn., Knoxville—Knoxville Paper Co.'s plant, 103 W. Jackson Ave.; loss \$50,000.

Tenn., Nashville—Garage and portion of residence of Mrs. M. Meadows, 1106 Shelton Ave.

Tex., Bishop—Mrs. J. B. Butts' residence, Fifth St.

Tex., Mercedes—Valley Storage Warehouse, owned by W. M. Anderson; loss \$50,000.

Tex., Seymour—Building owned by Dr. J. F. Bunkley and H. H. Fancher estate; loss \$40,000.

Va., Damascus—Mock & Wright Co., hardware and furniture store; N. S. Wright & Co., department store; Russell Co., general merchandise and meat market; L. and M. Store, Damascus Feed Co., Dr. C. M. Clendenen's office building; loss \$150,000.

Va., Norton—Building at Park Ave. and Sixth St., owned by National Bank of Norton, occupied by Norton Pharmacy and apartments; loss \$56,000.

N. C., Durham—Horner Winston, Chicago, purchased Hackney Building, Corcoran St.; leased to First National Co., who will remodel; install new fronts in store, office and cafe on ground floor and renovate two top floors for offices.

Tenn., Chattanooga—Additional contractors estimating on \$500,000 bank building for American Trust & Banking Co., bids in Dec. 27; Selden-Breck Construction Co., Fullerton Bldg., St. Louis, Mo.; Geo. A. Fuller Co., 1001 News Tower, Miami, Fla.; Fred T. Ley & Co., Inc., Consolidated Bldg., Jacksonville, Fla.; H. T. Underwood, care Underwood Contracting Co., New Orleans, La.; McLennan Contracting Co., 307 N. Michigan Ave.; H. D. Moreland Co., 2761 Clybourn Ave.; Trimmer-Nydele Co., 111 W. Washington St., all Chicago, Ill.; Worsham Bros., Knoxville, Tenn.; Wortham Construction Co., Louisville, Ky.; Foster & Creighton Co., Nashville, Tenn.; T. S. Moudy & Co.; Mark K. Wilson; John Becking & Son, all Chattanooga; K. M. Vitzthum & Co., 307 N. Michigan Blvd., Chicago, and Bearden & Crutchfield, First Natl. Bank Bldg., Chattanooga, Archts. 12-22

Tenn., Chattanooga—First National Bank, C. C. Nottingham, Exec. Vice-Pres., having plans drawn by Bearden & Crutchfield, First Natl. Bank Bldg., to remodel building, Main St., for branch bank; pressed brick, terra cotta and stone, bronze doors, marble and bronze interior trim. 12-15

Tenn., Elizabethton—Elizabethton Trust Co., Dr. J. O. Woods, member, erect 5-story bank building, Elk Ave. and Sycamore St.

Tenn., Nashville—Crane Co., Stahlman Bldg.; plans \$25,000 office building.

Tex., Amarillo—Panhandle and Santa Fe Railway Co., M. C. Blanchard, Ch. Engr., probably finish plans during Feb. for \$75,000 general office building; concrete, brick and steel fireproof, 12 full stories with 2 additional recessed stories, double basement, 90x140 ft., concrete mat foundation; plans by E. A. Harrison, Santa Fe System, Archt., Rwy. Exchange Bldg., Chicago, Ill. Address Mr. Blanchard. 6-30

Tex., Midland—Dr. J. B. Thomas, owner 6-story Thomas Bldg., considers erecting 2 additional floors.

Tex., San Antonio—Walker & Elder, Bldrs. Exchange Bldg., will not erect office building,



Newell St., at present; Emmett T. Jackson, Archt., Bldrs. Exchange Bldg. 12-15

Tex., San Antonio—Federal Reserve Bank receives bids Dec. 27 (extended date) at office Atlee B. & Robt. M. Ayres, Bedell Bldg., for \$250,000 building; W. E. Simpson & Co., Engrs., Natl. Bank of Commerce Bldg. 12-8

Tex., San Antonio—Dr. H. H. Ogilvie ready about Dec. 27 for bids on revise plans for sixth-story addition to Ogilvie Bldg.; brick, concrete, steel, cast stone trim; Adams & Adams, Archts., Builders Exchange. 7-21

W. Va., Wheeling—C. W. Bates, 77 12th St., and others remodel 10-story Hawley Bldg.

### Churches

Ala., Gadsden—East Gadsden Baptist Church erect building.

Ark., England—Baptist Church, Rev. Merling Harrington, Pastor, considers erecting brick or stone building; 1 story and basement, wood floors, slate or composition roof, stained glass windows, organ.

D. C., Washington—Northern Presbyterian Church Board having sketches drawn for \$2,000,000 National Capital Presbyterian Church; plans to go out for bids in about 1 year; structure seat 2000; Cram & Ferguson, 248 Boylston St., Boston, Mass., Major Geo. Oakley Totten, Jr., 808 Seventeenth St., Washington, and E. P. Mellon, 350 Madison Ave., New York, Archts. 2-17

Ga., Atlanta—Second Church of Christ, Scientist, erect frame building, Juniper and Fourth Sts.; 1 story and part basement, 73x40 ft., concrete footings, composition and Carey composition shingle roof; Pringle & Smith, Archts., Norris Bldg.; bids in.

Ga., Savannah—Ascension Lutheran Church has low bid from F. McKee, 11 Drayton St., for Sunday school building and elevator shaft; cost \$32,000; work will not start until March 1; Levy & Clarke, Archts., Blun Bldg. 12-22

Ga., Thomasville—First Baptist Church has low bid at \$65,700 from J. J. Johnson, De Funak Springs, Fla., for building; N. Sargent Hamilton, Archt., Wynne-Claughton Bldg., Atlanta, Ga. 12-8

La., Lake Charles—Following contractors estimating on general work for Broad St. M. E. Church, bids Jan. 5: J. M. Brown, 312 Ricou-Brewster Bldg., Shreveport, La.; Watson & Law, Beaumont, Tex.; Caldwell Bros., 116 Howard Ave., New Orleans, La.; P. Olivier & Son, 114 Bilbo St.; Knapp & East, Kaufman Bldg.; Smith & Beauford, all Lake Charles; heating and plumbing: Craft-Rushworth, Ltd., Broad St.; Jack Hilderbrandt, 914 Ryan St., both Lake Charles; W. B. McCoy, Lafayette, C. A. Hunter, Alexandria; I. M. Harper, Pineville. 12-24

La., New Orleans—Incarnate Word Parish, Father Jos. F. Pierre, Pastor, remodel frame dwelling, 9002 Quincey St., for chapel; Andry & Feltel, Archts., New Orleans Bank Bldg.; ready for bids about 30 days.

Miss., Senatobia—Baptist Church, Rev. J. C. Wells, pastor, erect \$20,000 building.

Mo., Cape Girardeau—Assembly of God Church, 1012 S. Ellis St., Rev. H. E. Waddle, Pastor, erect \$15,000 building, Sprigg and Hickory Sts.; 50x80 ft.

Mo., St. Louis—Bethany E. L. Church erect \$100,000 church and gymnasium, Clay and Natural Bridge Rds.; brick, stone trim, 1 story, 125x50 ft., slate roof; Corbusier & Foster, Archts., Keith Bldg., Cleveland, O.; L. J. Graham, Supvg. Archt., 4885 Natural Bridge Rd. 12-22

N. C., Greensboro—Forest Avenue Baptist Church, Rev. Wilson Woodcock, Pres., erect \$125,000 building; probably brick and steel, steam heat; furnishings, equipment, etc., \$15,000; other details not determined, architect not selected. See Want Section—Building Material and Equipment. 12-22

N. C., Shelby—First Baptist Church, Dr. Zeno Wall, Pastor, remodel interior of main auditorium and erect Sunday school annex.

Okla., Elk City—First Baptist Church, Rev. P. W. Shirley, Pastor, having plans drawn by Hawk & Parr, Cotton Exchange Bldg., Oklahoma City, for \$75,000 building; brick and stone, 3 stories. 11-17

Okla., Okemah—Methodist Church erect \$50,000 building; brick and stone, 3 stories; Edw. L. Gahl, Archt., S. W. Natl. Bldg., Oklahoma City; preliminary plans.

Okla., Ponca City—Church of the Nazarene, Rev. M. B. Dillingham, Pastor, erect \$25,000 building, 700 block S. Fourth St.

Okla., Stroud—First Methodist Church plans \$25,000 building; Griffith Co., Archts., Sapulpa.

S. C., Hartsville—First Baptist Church

probably soon call for bids for brick and stone Sunday school annex; cost \$70,000; wood and concrete floors, composition roof, steam heat; Wilkins & Hopkins, Archts., Florence. 10-6

Tenn., Chattanooga—Baptist Church (colored) plans to erect \$50,000 brick building, Grove St. between 14th and 13th Sts.

Tenn., Elizabethton—First Baptist Church, W. M. Vaughn, Chmn., Bldg. Comm., erect \$150,000 church and parsonage, W. F. St., Lynn Ave. and G St., Sunset Hill.

Tex., Lubbock—Church of the Nazarene, Rev. S. H. Erwin, Pastor, plans \$25,000 building; raising funds.

### City and County

Ala., Birmingham—City receives bids Dec. 27 at office Turner & McPherson, Archts., 1212 Martin Bldg., for fire station, Woodlawn Park, First Ave., North, near 57th St.; drawings and specifications from Archts. 9-29

Ark., Booneville—Logan County Quorum Court, Roy Blair, County Judge, probably call for bids early in 1928 for \$90,000 courthouse; light-colored brick, stone trim, 61x98 ft., 2 stories and basement, terrazzo corridor floors, ornamental stairway; Haralson & Nelson, Archts., Mercantile Bank Building, Fort Smith. 12-8

D. C., Washington—District Commission has low bid at \$11,446 from Skinner & Garrett for drill tower at Engine House Number 8. 12-8

Ga., Atlanta—American Legion interested in memorial open air amphitheater; tentative plans by Hentz, Adler & Shutze, Archts., Candler Bldg., at suggestion of Chas. Howard Candler.

Ga., Canton—Cherokee County Board of Commrs. have low bid at \$135,950 from J. S. McCauley Co., Bona Allen Bldg., Atlanta, for \$150,000 courthouse; jail work bid, Pauley Jail Building Co., 2215 DeKalb St., St. Louis, Mo.; elevator bids, Weekly Elevator Co., 375 Edgewood Ave., Atlanta; A. Ten Eyck Brown, Archt., Forsyth Bldg., Atlanta. 12-8

La., Rayville—Richland Parish Library Board erect one-story, brick, library building, gift of Robt. R. Rhymes, Lucknow.

La., St. Joseph—C. V. Ratcliff, Pres., Texas Parish Police Jury, receives bids Jan. 24 for steel cells for parish jail; plans and specifications from E. F. Newell, Sec.

Miss., Brookhaven—Lincoln County Board of Supervisors plans \$45,000 bond issue to repair courthouse and erect new jail.

Miss., Columbia—City, W. J. Hetzler, Mayor, votes Jan. 2 on \$200,000 city hall bonds.

Miss., Crystal Springs—Town, Conway Dabney, City Clk., receives bids Jan. 3 for jail.

Mo., University City, St. Louis—University City, E. B. Colby, City Clk., erect \$30,000 fire station, Olive St. Rd. and Pennsylvania Ave.; brick, 2 stories, 36x65 ft., rein. concrete floor slab and foundation, slate roof; Wm. P. McMahon, Archt., 719 Buder Bldg., St. Louis; bids in.

Mo., Independence—City voted \$75,000 fire dept. bonds. Address City Council.

Tex., Coleman—City, F. P. Scarborough, Mayor, voted \$45,000 city hall and fire station bonds. 12-8

Tex., Dallas—City has preliminary plans by Flint & Broad, Melba Bldg., for central fire station and fire alarm system building; 2 stories; \$350,000 bonds lately noted voted for fire department.

Tex., Eastland—Eastland County Commissioners' Court, Ed S. Pritchard, County Judge, receives bids Jan. 11 (lately noted Jan. 9) for fireproof steel and rein. concrete courthouse; cost \$300,000, 6 stories and basement; plans and specifications from Lang & Wittichell, Archts., 300 Amer. Exch. Natl. Bank Bldg., Dallas. 12-15

Tex., San Angelo—City Commission, E. V. Spence, City Mgr., receives bids Dec. 30 for sub-fire station; cost \$10,000; Swartz & Hamberlin, Archts. 10-27

### Dwellings

Ark., Little Rock—Mrs. J. W. Mehaffy, 1618 W. 20th St., erect brick veneer residence, T and Palm Sts.; 2 stories, 54x31.6 ft., oak floors, metal roof; Max F. Mayer, Archt., Donaghey Bldg.; plans complete.

Ark., Pine Bluff—M. H. McGehee, Pres., McGehee Realty & Lumber Co., erect 3 dwellings, 22nd Ave. and Mulberry St.; brick foundations, cost \$4000 each; 1 under way.

D. C., Washington—L. E. Breuninger & Sons, Colorado Bldg., erect \$18,000 brick dwelling, 1325 Hemlock St. N. W.; 2 stories.

D. C., Washington—Wm. B. Caton, 2902 P St. S. E., erect 2 brick dwellings, 2912-14

P. St. S. E.; 2 stories; total cost about \$10,000.

D. C., Washington—W. H. Gaskill erect \$25,000 brick residence, 1731 N. Portal Drive N. W.; 3 stories.

D. C., Washington—Henry D. Payne erect frame residence, 2001 Newton St. N. E.; 2 stories, cost about \$10,000.

D. C., Washington—Geo. W. Small erect 4 dwellings, 3613-15-19-21 Van Ness St. N. W.; 2 stories; total cost \$34,000.

Fla., Jacksonville—E. H. Pound, Lynch Bldg., erect \$15,000 residence; brick veneer, 2 stories, hardwood floors, composition roof, garage and servants' quarters; Jefferson D. Powell, Archt., Professional Bldg.

Fla., St. Petersburg—Curtis P. Moore erect frame residence and garage, Foster Hill Drive and Clearview Ave.; 2 stories, 7 rooms; cost about \$10,000.

Ga., Atlanta—Mrs. M. M. Emmert, 1185 Peachtree St., receives bids Jan. 4 for stone tile or brick residence, North Side Drive and Pages Ferry Rd.; cost \$60,000; 2 stories and basement, 66x37 ft., with 21x73-ft. wing, face and common brick, composition and slate roof, cement, brick and wood floors; Owen J. Southwell, Archt., Haas-Howell Bldg.; following contractors estimating: Gilbert Beers, Bona Allen Bldg.; C. A. D. Bayley Co., Glenn Bldg.; Collins, Holbrook & Collins, Atlanta Trust Co. Bldg.

La., Jennings—O. C. Tupper erect 5-room bungalow and double garage, W. Division St.

La., New Orleans—F. Julius Dreyfous erect frame and stucco residence, Audubon and Irma Sts.; 2 stories, tile roof, concrete floors, rein. concrete foundation, copper screens; Weiss, Dreyfous & Seiferth, Archts., Maison Blanche Bldg.; ready for sub-bids about 10 days.

La., New Orleans—Mrs. L. J. Lampron receives bids until after Jan. 1 for single frame and stucco residence, Canal Blvd. and Conrad St.; 1 story and basement; Jones, Roessle & Olschner, Archts., Maison Blanche Bldg.

La., New Orleans—W. J. O'Roke, 1730 Cleveland Ave., erect single residence, Harmony St., near Constance St.; 2 stories, 15x60 ft., asbestos roof.

La., New Orleans—John W. Durel, 703 Canal Bank Bldg., erect 3 double cottages, Olympia St., near Toulouse St.; asbestos roof, cost about \$10,000.

La., New Orleans—A. J. Kolwe, 3719 Washington Ave., erect 7 or more frame double cottages, Rochelave and Dauphine Sts.; 8 rooms; bid in Dec. 24.

La., New Orleans—Public Belt Railroad Comsn., City Hall Annex, has low bid from A. Garrett, 912 Maritime Bldg., for 4 trainmen's cottages. 12-8

Md., Baltimore—Philip Asbell, 2901 Violet Ave., purchased site, north side Kate Ave., east of Garrison Ave., for two cottages.

Md., Baltimore—C. C. Porter, 352 Gwynn Ave., erect frame cottage and garage, 4617 Putney Way, Homeland; 2½ stories; Machen & Dixon, Archts., 312 N. Charles St.

Md., Baltimore—R. L. Mahoney, 2139 W. Saratoga St., erect \$12,000, 2½-story stucco dwelling, 316 Tunbridge road, Homeland.

Md., Baltimore—Allen P. Miller, 766 E. 36th St., erect 3 frame dwellings and garages near N. W. cor. Grove and Central Aves.; 2 stories; total cost \$15,000.

Md., Baltimore—Robt. L. Mahoney erect \$12,000 stucco residence, 316 Tunbridge Rd., Homeland; 2½ stories.

Miss., McComb—E. O. Murrell erect brick bungalow, James St.

Mo., Kansas City—Harry Jacobs, Bldr., 6416 Oak St., erect 2 dwellings, Wornall Rd. and 56th St.

Mo., Kansas City—R. J. Koontz purchased homesite, 82 W. 70th St. Terrace, Romanelli Gardens.

Mo., Kansas City—H. H. Carrothers, 6803 E. 39th St., erect \$20,000 residence, 605 W. 56th St.

Mo., Kansas City—Thos. Dennis, 5730 Paseo erect two \$10,000 dwellings, 1226-1230 W. 62d St.

Mo., Kansas City—J. C. Nichols, Property Tower Bldg., erect \$15,000 dwelling, 1025 W. 60th St. Terrace.

Mo., St. Louis—Jesse L. Bowling, Inc., Archt., 1198 Arcade Bldg., have received bids for \$50,000 dwelling, Southmoor Drive and Big Bend Rd.; concrete foundation and floor, 2 stories and basement, 70x104 ft., oak and terrazzo floors, tile bath, slate roof, hot water heat.

Mo., Springfield—F. C. Nickle, 2256 N. Fort Ave., plans \$14,000 brick residence, Fort and Kearney St.

Okla., Tulsa—Mrs. Clara W. Jaynes erect

\$10,000 brick residence, 225 N. Rosedale Ave.; 2 stories.

Okla., Tulsa—Phillip Kates, Kennedy Bldg., and Geo. Ramsey, Cosden Bldg., erect \$23,500 dwelling, 1236 E. 18th St.; 2 stories; garage and servants' quarters.

Okla., Tulsa—A. J. Scherer erect \$10,500 residence, 1568 S. Gillette Ave.

Okla., Tulsa—Allen Whiteside, 1604 S. Detroit St., erect \$13,000 residence, 1390 E. 26th St.

Tenn., Memphis—Dave Dermon, Dermon Bldg., erect \$25,000 residence, Morningside Park and East Parkway; brick and field stone, 2 stories and basement, about 73x45 ft., oak floors, tile roof, 2 tile baths, steam heat; W. C. Lester, Archt., 824 Dermon Bldg.

Tenn., Memphis—Mr. Gordon, care Layne Bowler Co., erect \$25,000 residence, Hein Park; brick and half timber, 2 stories and basement, oak floors, tile roof and bath, steam heat; Sleg & McDaniel, Archt., First Natl. Bank Bldg.

Tenn., Memphis—C. R. Miller, 556 Suzett St., plans 3 w.de siding dwellings, 500 block Suzett; 1 story, pine floors, composition roof; total cost \$15,000.

Tex., Amarillo—B. B. Breeding erect \$12,000 residence, 2125 Monroe St.; brick veneer, 2 stories, 9 rooms, 28x44 ft., shingle roof.

Tex., Fort Worth—Ed. P. Byars, N. P. Anderson Bldg., erect \$30,000 residence, 3220 Avondale St.; brick veneer.

Tex., Houston—W. L. Edmundson, Merchants Exchange Bldg., erect 6 brick veneer dwellings and garages, Riverview addition; 5 rooms; total cost about \$10,000.

Tex., Houston—F. N. Bullock erect residence, Trinity Bay at Bayridge; John F. Staub, Archt., both Second Natl. Bank Bldg.

Tex., Houston—Geo. Schuleman, 2215 Nance St., erect 4 frame dwellings, 2100 block Staples St.; 3 rooms and bath; total cost \$12,000.

Tex., Houston—Wm. P. Schuppan erect \$10,000 brick veneer duplex, 1905-07 E. Alabama St.; 2 stories, 11 rooms.

Tex., San Antonio—Chas. J. Rush, Exec.-Sec., San Antonio Real Estate Board, plans residence, Olmos Park Estates.

### Government and State

Ala., Birmingham—Nisbet Hambaugh, Atty., erect \$18,000 building, West End, and lease to Government for post office; Spanish or English type, fireproof, 1 story, showers; Denham, Van Keuren & Denham, Archts.; open bids about Feb. 1.

Fla., Key West—Additional contractors estimating on remodeling, etc., pharmacist's quarters, U. S. Marine Hospital, bids Dec. 30 by Treasury Dept., Washington, D. C.; M. J. Graham, 1714 Hunting Pk., Philadelphia, Pa.; W. P. Thurston Co., Box 1998, Miami; H. G. Mitchell Co., Seward Bldg., West Palm Beach; A. C. Sanford, Shepherd Bldg., Montgomery, Ala.; W. P. Thurston Co., Box 1998; St. John Co., 629 Northwest St.; Gunn & Gall, Inc., 919 Security Bldg.; Chas. F. McKenzie Co., 144 N. E. 12th St., all Miami, Fla.; Universal Construction Co., Fort Wayne, Ind.; Robt. A. Kerr, 1001 White St.; Over-Sea Co., Box 504; Carey & Bethel, 910 Grinnell St.; J. B. Johnson, 524 Francis Street, all Key West. 12-22

Tenn., Nashville—Following contractors estimating on new office, etc., post office and courthouse, bids Jan. 4 by Treasury Dept., Washington, D. C.; M. & Q. Construction Co., 668 Arcade, Nashville; Louis Van Dorp & Son, Topeka, Kan.; Wm. MacDonald Construction Co., Syndicate Trust Bldg.; Geo. Griffiths Construction Co., 705 Olive St., both St. Louis, Mo.; Pearson-Rognell Co., 19 S. LaSalle St., Chicago, Ill.; Chas. Weitz's Sons, 713 Mulberry St., Des Moines, Iowa; V. L. Nicholson Co., Box 661, Knoxville, Tenn.; Smythe & Co., 1416 F St., Washington; A. C. Sanford, Shepherd Bldg., Montgomery, Ala.; Thos. W. Clasel, Bethlehem, Pa.; Highbridge-International Co., 1526 Sedgewick Ave., New York; King Lumber Co., Charlottesville, Va. 12-15

### Hospitals, Sanitariums, Etc.

Ark., Helena—City, D. T. Hargraves, Mayor, probably open bids about 40 days for fireproof hospital; cost \$150,000; 3 stories, 100x150 ft., concrete, linoleum and tile floors, rein. concrete foundation, tile roof; Eugene John Stern, Archt., A. O. U. W. Bldg., Little Rock; A. P. Coolidge, Asso. Archt., Helena. Address City, care Mr. Stern. See Want Section—Building Material and Equipment.

Ga., Savannah—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., has low bid at \$17,660 from Southern Construction Co., American Natl. Bank

Bldg., Pensacola, Fla., for medical officers' quarters, U. S. Marine Hospital. 12-8

Md., Annapolis—Emergency Hospital Board of Managers rebuild hospital noted burned; cost \$60,000.

N. C., Morehead City—City considering establishment of hospital. Address The Mayor.

Okla., Muskogee—Oklahoma Baptist Hospital, O. T. Graham, Chmn., Board of Directors, selected Albert Wood, Detroit, Mich., to supervise construction \$150,000 addition. 11-24

Tex., Austin—St. David's Hospital, Dr. J. C. Thomas, Chmn., Bldg. Comn., selected Giesecke & Harris, 207 W. Seventh St., as architects for \$100,000 fireproof annex. 11-10

Tex., Houston—City Council has low bid at \$38,411 from W. L. Goyen for extensions to Tubercular Hospital; plumbing bid, Warren Shivers Co., 4501 Polk St.; W. O. Dowdy, City Archt.; H. L. Washburn, Harris County Auditor.

Tex., Pecos—Reeves County defeated \$40,000 hospital bonds. 11-10

### Hotel and Apartments

Fla., Fort Lauderdale—R. A. Mansfield Hobbs, 220 Broadway, New York, has low bid from C. B. Cunningham at \$28,096 for 3-story, 265x50-ft., stucco or concrete block hotel building; George Bruce, Archt., Biscayne Bank Bldg., Miami.

Ga., Cartersville—Citizens raised \$25,000 to match \$100,000 which George A. Bartling and associates, St. Louis, Mo., have pledged to invest in erection of hotel; Ben G. Gilreath, Pres., Chamber of Commerce.

Ky., Lexington—Harry W. Moores, 211 Fayette Bank Bldg., plans erection of \$125,000, 3-story business and apartment building at S. E. cor. E. Main St. and Woodland Ave.

Md., Baltimore—Mr. Knott of Henry A. Knott & Co., Builders, 2107 N. Charles St., advises they have not received contract as recently noted, nor has any contract been let on \$50,000, 70x90-ft., 3-story, brick, 12-unit apartment house at 3401 Powhatan Ave.; Stone & Ganter, Archts., Knickerbocker Bldg. 12-22

Mo., St. Louis—B. H. Rhodes has permit for \$290,000, 8-story apartment building at 5475 Cabanne Ave.

Okla., Oklahoma City—W. D. Palmer, 2217 Lottie St., erect \$20,000 brick apartment house at 512 W. 20th St.

Okla., Tulsa—F. S. King, 1711 E. 13th St., erect \$12,600, 2-story apartment house at 1427 S. Quincy Ave.; private garages.

Tenn., Knoxville—W. K. McClure, owner of Oxford Hotel, 408 W. Clinch Ave., plans extensive remodeling program for next spring; set back 8 ft. from street, lower first floor 4 ft.

Tex., Brownsville—Francisco Mendoza, Matamoros, Tamaulipas, Mexico, has plans in progress by Elias Villanueva, for \$16,500, 2-story, hollow tile and stucco, 10-apartment building.

Tex., Cisco—W. C. Witt & Associates, 405 Construction Industries Bldg., have plans Jan. 15 by Thompson & Swaine, 507 Construction Industries Bldg., both Dallas, for \$275,000, 8-story, brick, stone and reinforced concrete hotel building.

Tex., Coleman—Mrs. Helen Moore soon let contract for 2-story, brick hotel on present site of Cottage Hotel, E. Pecan St.; 55 guest rooms, dining room and lobby.

Tex., Fort Worth—H. C. Meacham, 1214 Main St., has plans in progress by W. G. Clarkson & Co., 610 First Natl. Bank Bldg., for 12-story, brick, stone, steel and reinforced concrete, fireproof hotel building.

Tex., Fort Worth—A. E. Amos, 846 E. Davis St., erect \$15,000, brick veneer apartment house at 1016 Arlington St.

Tex., Fort Worth—Cleo Craig, Fine Arts Bldg., erect \$13,500, brick and tile apartment house at 921 W. First St.

Tex., Houston—O. L. Pardue, Keystone Bldg., has plans by Louis P. Josseland, First Natl. Bank Bldg., for \$50,000, 2-story, brick veneer, 20-apartment building at N. E. cor. Dallas and Chartres Sts.; composition shingle roof.

Tex., Houston—A. C. Polk, 139 Kingston Dr., erect \$12,000, 2-story, 14-room, 3 baths, brick veneer triplex and garage, 1802 Wentworth St.

Tex., Lufkin—Lufkin Hotel Co. instructed Shirley Simons, Archt., prepare plans for \$200,000 addition to Angelina Hotel; 50 rooms, banquet hall, space for stores on first floor and extension to lobby.

Tex., San Antonio—H. C. Wood, Pres. of First National Realty Securities Co., Travis

Bldg., announced plans for development of 650 acres on North Side, with \$1,000,000 tourist hotel in residential district; design hotel in 3 units, initial section to cost \$500,000; other 2 units to be added when needed; will form Hilltop Hotel Co. for erection.

Tex., San Antonio—Dr. W. H. Eaton, care H. J. Shearer, Travis Bldg., has plans in progress by Glen C. Wilson and R. H. H. Hugman, Texas Bank Bldg., for 2-story, brick veneer and reinforced concrete, 16-apartment building, Lake Drive and Woodlawn, Lake Side Estates.

Tex., San Antonio—Dr. W. H. Eaton will erect 2-story, brick, 16-suite apartment building at Lake Drive and Woodlawn Ave.; Glen C. Wilson and R. H. H. Hugman, Archts.

Tex., Santa Anna—McCowan, Aynette & Campbell, Fort Worth, will erect hotel building.

Tex., Weslaco—Argentum Development Co. has completed plans by Paul G. Silber & Co. for \$200,000, 5-story, reinforced concrete, brick, hollow tile and stucco hotel building. 12-15

### Miscellaneous

Ala., Mobile—Anglers' Club, Inc., Edwin W. Lamey, Pres., erect \$21,000 club building.

D. C., Washington—O. Harvey Miller, Archt., McLachlen Bank Bldg., receives bids Jan. 4 for erection of warehouse and distributing station for the American News Co., Inc. (wholesale booksellers, etc.), 131 Varick St., New York, at 1117 1/2, 1119-21 Fifth St., N. W.; 2 stories and basement designed so third story can be added, 62.3x120 ft., flat slab reinforced concrete, cast stone, brick, steel sash, millwork, steel, miscellaneous iron and steel, granite, marble and tile, sheet metal, slag roofing, plastering, painting, electric elevator, sprinkler system, steam heat, rolling steel doors, fire doors, office equipment; free standing furniture and oil burner reserved; following contractors estimating: Andrew Murray, 729 12th St. N. W.; Davis Wick Rosengarten Co., Inc., Skinner & Garrett, 1416 F St. N. W.; Schneider Splitt Co., 1416 F St. N. W.; James L. Parsons, Jr., Lenox Bldg.; G. E. Wyne, 2525 Pennsylvania Ave. N. W.; Charles H. Tompkins Co., 1612 Park Road N. W.; Arthur L. Smith & Co., 2525 Pennsylvania Ave. N. W.; W. P. Lipscomb Co., Inc., District Nat. Bank Bldg.; and R. P. Whitty Co., 514 19th St. N. W.

La., Covington—St. Tammany Golf Club, Inc., plans clubhouse and golf course.

Md., Baltimore—St. Barnabas' Guild, Maud M. Gardner, Pres., care of Hospital for Women of Md., plans to purchase house and convert into clubhouse, with living quarters for 40 graduate nurses.

Md., Chestertown—Howard Van Sciven, Pres., and John M. Gessler, Sec., 39th St. and Baltimore Ave., of Philadelphia, Pa.; State Senator S. Scott Beck of Chestertown is Vice-Pres. and Howard F. Owens, Betterton, Treas., of company planning waterfront resort development, to be known as Royal Swan Club, at mouth of Sassafras River; program includes residential rooms, marine dining saloon and grills, bathers' grill, card rooms, club garage, indoor swimming pool, club lounges, pipe organ, etc.

Okla., Oklahoma City—Oklahoma State Athletic Club, J. W. Mann, Pres., selected Layton, Hicks & Forsyth, Archts., Braniff Bldg., prepare plans for \$750,000, 12-story building; equipment cost additional \$250,000; swimming pools, auditorium, convention hall to seat 5000, banquet and luncheon rooms. 12-22

Tex., Houston—Percy Turner, Archt., preparing plans for \$60,000 clubhouse for Peggy Lake Country Club; also plans 18-hole golf course, etc.

Tex., Midland—Newbie Ellis, undertaker, planning to erect mortuary.

Va., Ocean View (Sta. Norfolk)—Otto Wells, owner of Ocean View Park, Dickinson Bldg., expend \$200,000 for new bandstand and concessions, renovation, etc.; T. H. Barton Amusement Device Co., Pittsburgh, Pa.

Va., Williamsburg—Rev. W. A. R. Goodwin, George Wythe House, advises regarding restoration of Williamsburg to its original condition in Colonial days: "It will probably be 18 months or 2 years before any construction work is begun"; Perry, Shaw & Hepburn, Archts., 177 State St., Boston, Mass.

### Railway Stations, Sheds, Etc.

Tex., Hart—Fort Worth & Denver South Plains Railroad, Frank E. Clarity, Gen. Mgr., Fort Worth, erect depot.

Tex., Plainview—Fort Worth & Denver South Plains Railway Co. erect new depot.



Tex., Texarkana—Texarkana Union Station Trust Co., care E. A. Hadley, Ch. Engr., Missouri Pacific Railroad Co., Railway Exchange Bldg., St. Louis, Mo., receives bids Jan. 28 (extended from Dec. 21) for \$1,700,000, 2-story, brick, stone, steel and reinforced concrete, fireproof union station; E. M. Tucker, Archt., 1164 Railway Exchange Bldg.; Taxis & Becker, Const. Engrs., Chemical Bldg.; both St. Louis. 12-15

### Schools

Ala., Florence—Florence State Normal College, Dr. Henry J. Willingham, Pres., preparing tentative plans for \$250,000 to \$300,000, 3-story Administration Building; Haig E. Boyle & Co., Archts., Evansville, Ind., and Nashville, Tenn.

Ala., Montgomery—Board of Education will erect Senior High School building between Court Street extension and Goode St.

Ala., University—University of Alabama received \$65,000 apportionment for erection of education building.

Ark., Arkadelphia—Board of Trustees of Ouachita College planning erection of science building.

Ark., Calhoun—Calhoun School District planning school to be constructed under direction of State Dept. of Education, C. M. Hirst, Supv. Buildings and Grounds, Capitol Bldg., Little Rock. 12-15

Ark., Springdale—School Board planning \$80,000 junior-senior high school on W. Emma Ave.; auditorium with seating capacity of 600, gymnasium, superintendent's office, principal's office, 2 science laboratories and classrooms, 2 laboratories and classrooms for home economics, 2 laboratories and classrooms for agriculture, 6 junior high school classrooms, 4 senior high school classrooms. 10-13

Fla., Marianna—Jackson County Board of Public Instruction receives bids Jan. 7 for erection of school building.

Fla., Monticello—Jefferson County Board of Public Instruction, J. W. Scruggs, Supt., Courthouse, has plans in progress for High School. Grade School and building for colored children, total \$250,000; brick and tile, stone trim, wood and concrete floors.

Fla., West Palm Beach—Palm Beach County Board of Public Instruction receives bids Dec. 27 for \$25,000 auditorium for Central schools; steel frame and cement block with stucco finish, 90x60 ft., seat 1200 persons; King & Campbell, Archts.; considering construction of \$30,000 school between Belle Glade and South Bay.

Ga., Athens—University of Georgia, Dr. S. V. Sanford, announced plans for construction of \$300,000 brick and concrete football stadium, seat 35,000; architect not named.

Ga., Douglas—Ware County Board of Education, Melvin Tanner, Supt., planning Consolidated High School; bond election soon.

Ga., Gainesville—Chicopee Mills erect \$100,000 school building near Mill; 3 stories, brick walls, stone trim, built-up roof; private plans in co-operation with State Dept. of Education.

Ga., Griffin—Georgia Experiment Station, H. P. Stuckey, Director, has plans by Frazier & Bodin, Atlanta, for brick, steel and concrete, fireproof, \$35,000 administration building; have 3 laboratories, library and 6 offices.

Ga., Reidsville—School Board plans to rebuild High School recently burned at \$50,000 loss.

Ga., Thomasville—City votes Jan. 3 on \$85,000 school bonds. Address Board of Education.

Ga., Tifton—School Board has low bid from W. H. Spooner, at \$43,000, for 1-story and basement, 168x120 ft. Consolidated High School building; Daniell & Beutell, Archts., Healey Bldg., Atlanta. 12-15

La., Baton Rouge—Wogan & Bernard, Archts., Old Raymond Bldg., soon place plans and specifications on market for general contract bids for 3-story, reinforced concrete and brick, \$250,000 combined armory and gymnasium building, for Louisiana State University.

La., Delano—Delano Junior High School District votes Jan. 17 on \$75,000 school bonds. Address Board of Trustees.

La., Girard—R. B. Rhymes will construct brick building for Richland Parish library.

La., Kaplan—Vermillion Parish School Board, Abbeville, has plans by Wm. R. Burk, Balter Bldg., New Orleans, for \$75,000, 2-story, 20-classroom addition to High School; composition and tile roof, cement and stucco front. 10-27

La., Monroe—St. Mathew's Catholic Church soon start work on \$60,000 parochial school building on Grammont St.; brick, stone trim-

mings, 73x120 ft., 15 rooms; J. W. Smith & Associates, Archts., Ouachita Bank Bldg.

La., New Orleans—St. Joseph's Congregation, Very Rev. Leo Gassler, Rector, receives bids Jan. 10 for \$60,000, 2-story, concrete and brick, fireproof High School; reinforced concrete foundation, composition roof; Wm. T. Nolan, Archt., Canal Bank Bldg., New Orleans. 12-8

La., Shreveport—Dodd College for Girls, J. W. Dickens, Welch, Chmn. of Commissioners, retained Clarence W. King, Archt., Giddens-Lane Bldg., prepare plans for \$180,000 dormitory, the first of three such buildings projected.

La., Winnfield—Winn Parish School Board has plans by Herman J. Duncan, 120 Murray St., Alexandria, for \$105,000, 2-story, brick, reinforced concrete and stone trim High School building; built-up composition roof, plastered interior, structural steel and miscellaneous iron work. 9-1

Miss., Hickory—W. M. Everett, Chmn. of Building Committee of Board of Education, announced plans for rebuilding school recently burned; \$12,000.

Mo., Kansas City—School Board probably call election March 27 on \$5,000,000 school bonds.

N. C., Lexington—Davidson County Board of Education plans \$60,000 consolidated school for Thomasville and Abbotts Creek townships; C. H. B. Leonard, Midway, probably have charge of construction.

N. C., Raleigh—Raleigh Township School Committee, J. M. Broughton, employed William H. Detrick, Archt., prepare plans for High School on St. Mary's St.; probably construct of Wake County stone.

Okla., Bryan—School Board will erect 8-room and gymnasium building, replace structure burned.

Okla., McAlester—City voted \$90,000 bonds for 2-room addition to Second Ward grade school and Junior High School; John B. White & Son, Archts., Ardmore. 12-8

Okla., Okemah—Board of Education, reported, planning new high school building.

Tenn., Knoxville—Knox County Board of Education planning construction of 2 new schools.

Tenn., Madisonville—Monroe County Board of Education voted to consolidate Epperson and Ironsburg schools; build school half way between.

Tenn., Nashville—Following contractors estimating on \$300,000, 2-story and basement Elementary School, bids to be opened by Board of Education Jan. 3: R. L. Proctor, Independent Bldg.; Zopf Construction Co.; Laubheimer & Austin; Boone Contracting Co.; Gould Contracting Co.; F. E. Causey, all four Independent Bldg.; J. B. Regen Contracting Co., 117 Fifth Ave., N.; Foster-Creighton Co., Fourth and First Bldg.; E. G. Holladay Co., 151 Fourth Ave., N.; Sumner Construction Co., 155 Fourth Ave.; C. D. Sumner, 102 S. Second; J. R. Vaughn, 155 Fourth Ave., N.; J. E. Chilton, 2106 Blair Blvd., all Nashville; B. E. Buffalo Co., 658 East St.; Estes Williams Construction Co., Denmar Bldg., both Memphis; V. L. Nicholson Co., 102 W. Clinch St., Knoxville; Maughans-Bell Co., Murfreesboro; Raymond Contracting Co., Bowling Green, Ky.; George D. Waller, Archt., 911 Independent Bldg. 12-22

Tex., Austin—University of Texas received gift of 4175-acre tract along Galveston Bay from Archer M. Huntington, New York, as nucleus for art museum.

Tex., Austin—Board of Regents of University of Texas, J. W. Calhoun, Comptroller, receives bids Jan. 16 for erection of baseball grandstand and park fence; plans and specifications from Herbert M. Greene Co., University Archts., Builder Construction Bldg., Dallas.

Tex., Beaumont—Board of Education will ask architects to submit plans and specifications and cost of construction for new Senior High School building, negro school and improvements and additions to present schools; will call election, probably in April, on \$1,000,000 bonds.

Tex., Big Spring—School Board has plans in progress by Trost & Trost, El Paso, for \$125,000 annex to High School.

Tex., Cuero—Dr. J. C. Dobbs, Pres. Board of Trustees of Public Schools announced survey being made to ascertain ways and means for securing new school buildings.

Tex., Gainesville—School Board, Lee Clark, Supt., considering new gymnasium at New-some Dougherty Memorial High School.

Tex., La. Sara—La. Sara Independent School District, Mr. Brownfield, Pres. Board of Trustees, receives bids Jan. 5 for 1-story, 4-classroom and auditorium, Spanish type,

semi-fireproof school; R. Newell Waters, Archt., Weslaco. 12-8

Tex., Normanna—Normanna Independent School District receives bids Jan. 7 for school building; W. C. Stephenson, Archt., Beeville.

Tex., Temple—City Commission authorized City Mgr. George Byars employ architect to make survey and report on present needs and condition.

Va., Norfolk—South Norfolk City Council, Mayor B. H. Gibson, plans \$150,000 bond election for new High School.

Va., Roanoke—E. M. Coulter has permit for work on National Business College, \$14,000.

W. Va., Parkersburg—Board of Education purchased 10-acre tract beyond Neal View as site for school building.

### Stores

D. C., Washington—H. C. Bail, 912 15th St. N. W., has permit for \$15,000 2-story, brick and tile store and apartment building at 628-32 Eighth St. N. E.

D. C., Washington—Frank L. Fanning, 1356 Spring Rd. N. W., has permit for three 1-story stores at 1726-30 Kalorama Road; \$10,000.

Fla., Jacksonville—Mrs. Julia E. Wightman, 1120 Park St., has plans by K. Dunlap Morrison, for \$20,000, reinforced concrete, hollow tile, stucco exterior Park Arcade, Park between Loman and First Sts.

Fla., Tampa—Bentley-Trezevant, Inc., 1211 Wallace St., erect \$25,000, brick, 2-story and 16-office building; built-up roof, wood and concrete floors; Francis J. Kennard & Son, Archts., Krause Bldg.

La., Shreveport—Walter B. Jacobs, 830 Monrovia St., has plans in progress by Clarence W. King, Giddens-Lane Bldg., for 2-story, brick, \$160,000 store building at cor. Texas and Edwards Sts.

Md., Baltimore—Mrs. Ella J. Hutzler has plans in progress by Joseph Evans Sperry, Calvert Bldg., for building to replace three 3-story buildings at 217-21 W. Saratoga St., to be known as Arcade des Arts; have 2 shops on Saratoga St. front with several opening on an arcade, which would lead to patio in rear; around patio will be 4 small shops; \$120,000.

Miss., Jackson—Louis Lewine, Belhaven, owner of building recently burned, will repair.

N. C., Greensboro—W. F. Ross, Benbow Arcade, has preliminary plans in progress by P. P. Sawyer, 423 N. Edgeworth, for \$100,000, fireproof, brick and concrete arcade building; composition roof, steam heat.

Tenn., Knoxville—J. S. Sample Co., 508 Market St., plans to erect 2-story, brick, 75x167-ft. \$30,000 building on Jackson Ave. at Central St.

Tenn., Knoxville—Henry Schumacher, 121 S. Gay St., leased Minnis Building at 317-19 Wall Ave., will remodel.

Tex., Beaumont—Ben E. Irby, Archt., Weiss Bldg., prepared plans for building at Mariposa and Calder Aves., for A. & P. Store.

Tex., Big Lake—Dr. J. D. Young plans to erect business building next spring.

Tex., Del Rio—G. L. Smith has plans by Will N. Noonan Co., Builders Exchange Bldg., San Antonio, for remodeling front of 2-story store and hotel building.

Tex., Fort Worth—James Pinto, 3708 Arlington Heights Blvd., erect \$12,000 brick store at Sixth and Carroll Sts.

Tex., Harlingen—E. J. Condon has preliminary sketches by Adams & Adams, Builders Exchange Bldg., San Antonio, for 1-story, 75x140-ft. brick and concrete store and filling station.

Tex., San Angelo—Baker-Hemphill Co., W. M. Hemphill, Pres., erect 4-story and basement building at Beauregard and Irving Sts.

Tex., San Angelo—J. C. Penney Co., J. J. Johnson, Mgr., expend \$25,000 to \$30,000 remodeling building.

Tex., San Antonio—Louis Lipscomb, Frost Bldg., soon have plans by Adams & Adams, Builders Exchange Bldg., for \$30,000, 2-story, 68x101-ft., brick, hollow tile, reinforced concrete, cast stone trim business building, Convent and St. Mary's St.; foundation for 5 stories. 10-27

Tex., San Benito—Brown & Polinsky have plans in progress by Birger A. Ewing, Harlingen, for remodeling store and office building, \$15,000.

Tex., Wichita Falls—Mytinger & Walker have permit for \$10,000 business house at 809-11 Brook St.

W. Va., Williamson—Mrs. E. F. McElroy and Mrs. H. E. Davis, 3808 Seminary Ave., Richmond, Va., owners of building burned at \$16,000 loss, announced plans for remodeling.

## Theaters

Ala., Auburn—Thomas Estates has plans by D. O. Whildin, Birmingham, for \$35,000, 1-story, brick theater building.

Fla., Tampa—Cuban Club, reported, approved plans by Florentino Diaz, 403 N. Howard Ave., for \$100,000 theater building; seating capacity 3000; Antonio Mesa, Andres Garcia, interested.

La., Bogalusa—Pine Tree Amusement Co., operating Magic City and Pleasant Hill Theaters, contemplates constructing new theater in future.

Md., Cumberland—Thomas W. Lloyd, owner of building at 223 Virginia Ave., plans to remodel and transform hall on second floor into theater to seat 350.

N. C., Rocky Mount—C. K. Howell Archi-

tectural & Construction Co., Forsyth Bldg., Atlanta, Ga., completed plans for \$200,000, brick and reinforced concrete theater, store and office building.

## Warehouses

Ark., Little Rock—Big Rock Stone and Material Co., W. W. Dickinson, Pres., Ft. Ashley St., plan to erect warehouse.

Mo., St. Louis—Grand-Leader Realty Co., Washington Ave., 6th and 7th, has permit for \$125,000 warehouse and relay station at 3712-18 Laclede Ave.

Tex., San Antonio—Southwest General Electric Co., City Natl. Bank Bldg., has plans by Henry T. Phelps, Hicks Bldg., for 1-story, reinforced concrete, brick, tile, steel warehouse, N. Marcos St.

## BUILDING CONTRACTS AWARDED

## Bank and Office

Ga., Waycross—H. C. Bunn let contract to T. J. Darling, Box 85, for office building, Pendleton and Elizabeth Sts.; 3 stories, basement, mezzanine and pent house, 82x65 ft., with 35x10-ft. wing, concrete floors and slabs, common and face brick, hollow tile back-up walls, struct: steel columns, beams, etc.; Roy A. Benjamin, Archt., Bisbee Bldg., Jacksonville, Fla. 11-10

## Churches

Ga., Thomasville—First Baptist Church let contract at \$68,600 to Joe M. Bentell, Piedmont Rd., Atlanta, for brick, steel and concrete building; long-span steel beams and columns, 3 stories, 100x150 ft., pine floors, concrete footings, composition roof; furnishings, equipment, etc., \$15,000; N. Sargent Hamilton, Archt., Sans Souci Studio, Atlanta; Building Comm., M. H. Goodwin, Chmn., ready to consider various purchases. See Want Section—Building Material and Equipment. 12-8

La., New Orleans—Haven Memorial M. E. Church erect \$14,000 building, Joliet and Leonidas Sts.; Horton-Salmen Co., Inc., Contr., 3901 S. Carrollton St., New Orleans.

La., New Orleans—Bird & Putfark, New Orleans Bank Bldg., have plastering contract for \$17,000 remodeling work of Second Church of Christ, Scientist; plumbing, W. Caillouet, 2552 N. Roman St.; painting, C. A. Palmgren, 1004 Broadway; Emile Well, Inc., Whitney Bldg.; Chas. Gilbert, Contr., Balter Bldg. 12-22

Md., Salisbury—Asbury M. E. Church, Wm. P. Jackson, Chmn., Bldg. Comm., let contract for \$75,000 annex to J. Roland Dashiell for Sunday school and community building; Port Deposit granite, 3 stories, 44x105-ft. with 12x30-ft. wing; Norman Hulme, 1524 Chestnut St., Philadelphia, Pa.

Miss., Houston—Christian Church, W. D. Woods, member, Bldg. Comm., started work on tile building; L. E. Tilman, Contr.

Mo., St. Louis—St. Luke's E. L. Church, Alaska and Neosho Sts., erect \$100,000 church and Sunday school addition, 3419 Neosho; brick, 2 stories and basement, 152x50 ft., concrete foundation, composition roof; Frank W. Nagel, Archt., 3509 Osage St.; excavating, Luick Excavating Co., 1008 S. 11th St.; Kellermann Contracting Co., Contr., 422 Victoria Bldg.

N. C., Greensboro—First Presbyterian Church let contract to Walter Kidde & Co., Inc., Jefferson Bldg., for \$500,000 church and Sunday school; plumbing, Hunt Bros.; electrical work, Michael & Bivens; rein. concrete and struct. steel, brick exterior, stone trim, concrete and wood floors, slate and composition roof, steel sash, steam heat; Hobart Upjohn, Archt., Grand Central Terminal, New York; Harry Barton, Asso. Archt., Jefferson Bldg., Greensboro; heating not let. 12-8

Okla., Tonkawa—Hutchinson Millwork Co., Hutchinson, Kan., has millwork contract for \$65,000 First M. E. Church building; stone, Lusco Brick & Stone Co.; steel, Ben Sibbitt Iron & Foundry Co., both Wichita, Kan.; brick, Acme Brick Co., 210 W. Fourth St., Tulsa; plumbing, Tonkawa Plumbing Co., Tonkawa; heating, H. H. Hyes, Oklahoma City; footings under supervision of K. H. Grantham; Sorey & Vahlberg, Archts., Braniff Bldg., Oklahoma City; L. S. Fisher Construction Co., Contr., Tonkawa. 12-22

Okla., Tulsa—First M. E. Church has gift of \$50,000 to \$75,000 pipe organ; organ to be built by Aeolian Company, Fifth Ave. and 54th St., New York, under direction of John A. Bell, Organ Archt., Pittsburgh, Pa.

Tenn., Memphis—Baron Hirsch Congregation, Dave Dermon, Chmn., Dermon Bldg., let contract for \$150,000 church and cultural

center to H. A. McGuire & Co., Dermon Bldg.; fireproof, 3 stories and basement, rein. concrete, brick walls, stone trim, concrete and wood floors, steel sash, built-up roof; W. C. Lester, Archt., 824 Dermon Bldg. 12-22

Tenn., Memphis—Buntyn Presbyterian Church let contract for \$18,000 Sunday school to Clinton Building Co., 150 Urner Ave.; 2 stories, pine floors, concrete foundation, asphalt roof; Geo. Mahan, Jr., Archt., Amer. Bank Bldg. See Want Section—Building Material and Equipment. 12-22

Tex., Mission—Presbyterian Church let contract to Wm. Cotehran for addition adjoining church; 24x47 ft.; classrooms, kitchen, etc.

## City and County

Fla., Chipley—Washington County Board of Commrs. let contract to J. B. Carroll & Co., Lakeland, for \$200,000 courthouse and jail; Frank Lockwood, Archt., Montgomery, Ala., and Atlanta, Ga. 12-22

Okla., Oklahoma City—Oklahoma County let contract for \$25,000 old men's home at county farm to R. M. Crissman, 619 S. W. National Bldg.; brick, 1 story, 32x160 ft., wood floors, asphalt shingle roof; Guy Reed, Archt.; steam heating and plumbing, Oller Heating Co., First Natl. Bldg.; electrical work, Weatherbee Electric Co. 12-15

Tex., Lubbock—City let contract at \$10,500 to J. B. Maxey for fire station.

## Dwellings

Ala., Birmingham—H. M. Davis, 2630 Highland Ave., let contract for \$30,000 residence to C. H. Muse; brick veneer, 2 stories, copper shingle roof; Chas. H. McCauley, Archt., 708 Jackson Bldg. See Want Section—Building Material and Equipment. 12-22

Ala., Birmingham—Calvin Jones, 3053 Highland Ave., let contract to Paul Bros. for \$60,000 residence; brick veneer, 2 stories, slate roof; Chas. H. McCauley, Archt., 708 Jackson Bldg. See Want Section—Building Material and Equipment. 12-22

Ark., Camden—Industrial Development Co., T. J. Gaughan, W. W. Henderson, members, erect 20 dwellings, Cullendale addition; frame, 4 rooms and bath, pine floors, wood shingle roofs; total cost \$25,000; Tom Wilmoth, Contr.

Ark., Little Rock—C. W. Cox, 800 E. 18th St., erect \$10,000 residence and garage, 1701 Spruce St.; Bracy Building Co., Contr.

Ark., Marion—J. H. Amelung erect brick veneer residence and garage; stone trim, 1 story and basement, 6 rooms, oak floors, tile bath, composition shingle roof, steam heat, cost about \$10,000; R. E. Spencer, Archt., 201 Fidelity Bank Bldg.; R. T. Porter, Contr., 1082 Carr Ave., both Memphis, Tenn.

Ark., Monticello—W. F. Norrell, care Wilson and Norrell, erect brick veneer residence, E. Jackson St.; 2 stories, oak floors, composition shingle roof; Higgason & Burks, Contrs., Dermott.

Ark., Morrilton—Mrs. C. C. Burrow erect \$12,000 brick and stucco residence, Green St.; tile roof.

D. C., Washington—Chas. D. Sager, 924 Fourteenth St., started work on 10 dwellings, 549-67 Twenty-fourth St. N. E.; brick, 2 stories, 16x30 ft., oak floors, slag roof; Geo. T. Santmyers, Archt., 917 Fifteenth St. N. W. 12-22

Fla., Jacksonville—C. H. Stephens, 332 E. Sixth St., has heating contract for \$10,500 residence for E. V. Richison; electrical work, J. C. Kellar, South Jacksonville; plumbing, J. C. Beardon, Murray Hill; stone work and concrete, Jacksonville Concrete Products Co., 530 Riverside Drive; brick, Cowan Brick Co.,

Box 2593; H. F. McAden, Contr., 3327 Riverside St. 12-22

Fla., Ocala—Percy Thigpen let contract for \$16,500 residence to A. C. Bigbee, Hogan Bldg.; clay tile and stucco, 2 stories, 40x32 ft., oak floors, concrete foundation, tile roof; Geo. MacKay & Co., Archts.; heating and plumbing, Wm. Needham; electrical work, L. G. Bailey; work started. See Want Section—Building Material and Equipment. 12-22

La., New Orleans—Sam Bruno erect 2 buildings, Independence and Robertson Sts., and Esplanada and DeSoto Sts.; total cost about \$18,000; Horton-Salmen Co., Inc., 3903 S. Carrollton St., Contr.

La., New Orleans—Jefferson Parish Drainage District, A. T. Duzenbury, Engr., Marine Bank Bldg., let contract at \$12,690 to Gitz & Geier, 8133 Oak St., for four frame engineers' cottages; Theo. L. Perrier, Archt., Maritime Bldg.

La., New Orleans—E. W. Carr erect 1-story double bungalow, Banks St., near Broad St.; Frank P. Dufrechou, Contr., Balter Bldg.

Miss., Brookhaven—G. D. Antley erecting 2 dwellings, Josephine St.

Miss., Carthage—M. M. Keith erect pressed brick veneer residence; 7 rooms, hardwood floors, plastered interior, asbestos roof; Louie Dickens, Contr.

Miss., Carthage—Fred McMillan erect frame residence; 6 rooms and bath, edge grain pine floors, asbestos shingle roof; Louie Dickens, Contr.; work start about Jan. 1.

Miss., Jackson—H. R. Dever, care N. W. Overstreet, Archt., Miss. Fire Bldg., erect \$12,000 brick veneer residence; 2 stories, wood floors, asbestos roof; D. P. Denny, Contr., Waterworks Rd.

Mo., Kansas City—Carl A. Brand, 907 Sharp Bldg., erect 2 frame and brick dwellings, 1250 Huntington Rd.; 2 stories, 22x33 ft.; owner builds.

Mo., Kansas City—J. C. Nichols Investment Co., 911 Commerce Bldg., erect \$15,000 frame and stucco dwelling, 1025 W. 60th St. Terrace; 2 stories, 33x52 ft.; owner builds.

Mo., St. Louis—A. Ramsbrock, 6300 Southwood St., erect brick residence, 247 Woodbourne Drive; 2 stories, 60x31 ft., composition roof, hot water heat, cost about \$10,000; Koester Bros., Archts.-Contrs., 2863 Laclede Rd.

Mo., St. Louis—W. B. Heard, 4625 Rosa Ave., erect \$12,000 duplex, Boland Drive; brick, 2 stories and basement, 25x44 ft., stone trim and foundation, oak floors, tile baths, slate roof, hot air heat; O. J. Popp, Archt., 1528 Arcade Bldg.; day labor.

Mo., St. Louis—M. Pfiffner erect 4 dwellings, 618-30, 622-26 Koeln St.; brick, 1 story and basement, 29x49 ft., oak floors, tile baths, hot water heat; total cost \$25,000; F. Burns, Contr., both 7707 Vermont Ave.

Mo., Springfield—Dan Nickle, 2150 N. Franklin Ave., erecting 3 brick dwellings, W. Atlantic St.

Mo., University City—Carl J. Welchel, 7150 Amherst St., erect \$13,000 residence; brick, 2 stories and basement, 29x36 ft.; C. L. Thurston, Archt., 130 Kenilworth Ave., Webster Groves; Parnell Quick, Contr., 249 W. Big Bend Blvd.

Okla., Oklahoma City—A. B. Ashby started work on \$10,000 brick duplex, 2700 block W. 19th St.

Okla., Oklahoma City—Bonenberg Bros. Realty Co., S. W. Natl. Bldg., started work on \$10,000 brick duplex, 18th St. and Villa Ave.

Okla., Oklahoma City—O. A. Fickess, 2537 W. 17th St., started work on \$12,000 residence, 17th St. and Randolph Ave.; 2 stories, brick.

Okla., Tulsa—Following sub-contracts let on \$225,000 residence for C. S. Bole, Exchange Natl. Bank Bldg.: Painting, Wiehcke Co.; wiring, Electric Supply Co., 815 E. Third St.; stone, Consolidated Cut Stone Co., 1323 E. Fifth St.; steel, Patterson Steel Co., 801 N. Xanthus St.; roofing tile, Dean & Day, 415 N. Main St., all Tulsa; millwork, Springfield Planing Mill & Lumber Co., 517 N. Campbell St., Springfield, Mo.; plumbing and heating, McMamen Co., 1316 Oak St.; brick, Hytex Co., both Kansas City, Mo.; Holt, Price & Barnes, Archts., 800 Davidson Bldg., Kansas City; G. D. Morrow & Son, Contrs., Kennedy Bldg., Tulsa. 11-17

Tex., Alice—Claude McGill let contract at \$18,529 to Gray Construction Co. for residence; plumbing, C. I. Lassiter, both Alice; wiring, Durham Electric Co., Kingville; face brick, hollow tile and rein. concrete, cast stone, story, about 68.10x54 ft., 24x47-ft. garage; Hardy & Curran, Archts., Nixon Bldg., Corpus Christi. 11-10



Tex., Coleman—T. J. Allen let contract for \$10,000 brick veneer residence, W. Pecan St., to J. E. Firmin.

Tex., Coleman—Mrs. P. P. Reynolds erect 10-room frame building, Concho St.; 2 stories.

Tex., Coleman—A. Wright erecting \$10,000 residence, Newsom Addition; J. E. Firmin, Contr.

Tex., Houston—Ben Neff, Contr., erecting \$13,000 duplex, 2214 Salisbury St., Glendower Court; brick veneer, 2 stories, 10 rooms.

Tex., Port Arthur—A. W. Howe, 2449 Lakeshore Dr., erecting \$10,000 residence, Griffing Residential Park; heart cypress siding, waxy butt shingle roof; C. L. Wignall, Archt., Barnes Bldg.; W. L. James, Contr., 1927 Fifth St.

Tex., San Antonio—Alamo Development Co., Travis Bldg., erecting 6 dwellings, Woodlawn; also \$75,000 apartment house; Company has building program of \$325,000.

Tex., San Antonio—Busby Building Corp., Woodlawn Place, erect 11 dwellings, Woodlawn district; cost \$122,500; Corp. has \$740,000 building program for 1928.

Tex., San Antonio—L. E. Fite & Co., 317 W. Travis St., started work on about 20 dwellings, Parkmoor Place; plans 75 to 100 dwellings during 1928 at cost of \$375,000 to \$500,000.

### Government and State

La., New Orleans—Albert Leonhard let contract at \$21,885 to Dudley E. Wike Construction Co., 356 Barrone St., for building for Station B. U. S. post office, 4317 Carondelet St.; stone tile, 1 story and mezzanine, 30x121 ft., concrete foundation, steel sash, metal ceilings, composition roof, hot water heat; Theard & Matthews, Archts., Balter Bldg. 12-15

Tex., Fort Sam Houston, San Antonio—Constructing Quartermaster, Capt. A. W. Parker, let contract at \$476,162 to L. T. Wright & Co., Builders Exchange Bldg., San Antonio, for 2 units of barracks building program; 1 regimental and 1 battalion barrack building, modified Spanish type, rein. concrete, tile roof. 11-12

### Hospitals, Sanitariums, Etc.

Tex., Beaumont—Ideal Plumbing Co., 1806 S. Hackberry St., San Antonio, has plumbing and heating contract for \$85,000 hospital under construction for Dr. A. D. Mann, Dr. J. N. Gardner, and others; wiring, Travis Electric Co., 711 E. Houston St.; Phelps & DeWees, Archts., Gunter Bldg., both San Antonio; Herman Weber, Contr., Perlstein Bldg., Beaumont. 12-22

Tex., Corpus Christi—Fred Roberts Memorial Assn., B. F. Bickley, Pres., let contract at \$35,000 to J. W. Bermingham for hospital; brick, tile, concrete, fireproof, 2 stories, accommodate 28 patients; 2 cottages at rear for nurses; Ralph H. Cameron, Archt.; W. E. Simpson & Co., Engrs., both San Antonio. 11-12

Tex., San Antonio—Ideal Plumbing Co., 1806 S. Hackberry St., has hot water heating and plumbing contract for \$125,000 clinic for Beaumont Surgical Hospital Co., Inc.; electrical work, Travis Electric Co., Medical Arts Bldg., elevator contract not let; Phelps & DeWees, Archts., Gunter Bldg.; W. E. Simpson & Co., Engr., Natl. Bank of Commerce Bldg., all San Antonio; Herman Weber, Contr., Perlstein Bldg., Beaumont. 12-22

### Hotels and Apartments

D. C., Washington—Wardman Construction Co., Inc., N. W. K St., announced plans for \$2,000,000, 155x160 ft. apartment building, Connecticut Ave., between K and L Sts.; 12 stories, Romanesque architecture, faced with brick, limestone trimming to third floor.

D. C., Washington—M. and R. B. Warren, Contrs., 925 15th St. N. W., developers of cooperative apartment building project at Connecticut Ave. and Tilden St., announced work start in 2 weeks on another building in group, which will total 7 buildings and cost \$3,000,000; contain 20 suites with total of 123 rooms, \$300,000, 179x196 ft., located at cor. Sedgwick and Tilden Sts.

Fla., Jacksonville—W. R. Stone, 1832 Walnut St., let contract to J. H. Maple, 17th and Davis Sts., for 16 two-story, frame, 2-flat buildings, Alley North of Kings Road; \$32,000.

Ky., Louisville—Biltmore Development Co., Harry Platoff, Pres., 2300 Rutherford, let contract to Platoff & Bush, 122 W. Liberty St., for \$800,000, 11-story apartment building, Bonnycastle Ave. and Spring Drive, to be known as The Commodore; 53

de luxe type apartments of 5 and 7 rooms, each with 2 baths; T-shaped, brick and terra cotta construction, Renaissance design, hardwood and tile floors; Joseph & Joseph, Archts., 800 Frances Bldg. 12-8

Mo., Kansas City—Conrad Realty Co., 407 Continental Bldg., erect three 2-story, 34x14 ft. apartments, 4408-21 Holly St.; owner builds.

Mo., St. Louis—Victor H. Rhodes, Contr., 6635 Delmar Blvd., started excavations for \$1,000,000, 8-story, 145x135-ft. apartment building at N. E. cor. Cabanne and Belt Aves.; 112 apartments of 2, 3 and 4 rooms each; first 2 stories in Bedford limestone and remainder in sand-faced brick; Boaz-Kiel Construction Co. will erect superstructure; concrete roof, low pressure steam heat; Francis Avis, Archt., associated with Ralph Cole Hall and Victor Proetz.

Mo., St. Louis—E. Cooney, Virginia and Cherokee Sts., let contract to C. J. Jackson for \$10,000, 2-story, brick, 36x39-ft. tenement, 3410-12 Virginia St.; slate shingle roof, hot air heat; H. Stanglein, Archt., 3716 Oregon St.

Mo., St. Louis—G. Major, 4319 Lindell Blvd., let contract to W. H. & N. Cunliff Co., 410 N. Euclid Ave., alter 3-story tenement at 4319 Lindell Blvd.; \$10,000.

Mo., St. Louis—St. Liborius School Assn., 1838 N. 18th St., let contract to Ratermann Building & Contracting Co., 1943 St. Louis St., for \$11,500, 2-story, brick, 36x56-ft. tenement, 1827-29 N. 18th St.; asphalt shingle roof, hot air heat; H. Dreisscoudt, Archt., 3843 Humphrey St.

Mo., Springfield—J. A. Taylor, owner of Ben Franklin Hotel, 308 West Olive St., erecting 16-room addition; \$10,000.

N. C., Greensboro—W. W. Dick let contract to Angle-Blackford Co., McGlamery Bldg., to remodel Greensboro Bank and Trust Bldg., convert first floor into 2 store rooms, bachelor apartments on 2 floors above.

Tex., Houston—W. B. Lewis, 5010 Le Branch St., erecting \$22,000, 2-story and basement, brick veneer apartment building at 4815 San Jacinto St.; owner builds.

Tex., San Antonio—John P. Morris, Brady Bldg., start work early in Jan. on \$25,000, 2-story, brick veneer and frame apartment building on Erie St.; reinforced concrete foundation, hardwood floors, composition shingle roof; W. A. Miller, Archt., 411 Builders Exchange Bldg.; owner builds. 12-8

Va., Clifton Forge—Davis Brothers, Inc., 1716 Summit Ave., Richmond, let following sub-contracts on \$175,000, 4-story, fireproof, 100x137 ft. hotel building for L. S. Higginbotham; Heating and plumbing, S. H. Guza, 9 Wickham St.; electric elevator, Otis Elevator Co., 7 N. Second St.; cast stone, R. Massie Nolting, 22 N. Seventh St.; face brick, Earnest Brothers, 805 E. Franklin St., all Richmond; electric work, Whiteside Supply and Engineering Corp., Clifton Forge; iron and steel joists, Truscon Steel Co., Norfolk; pouring foundations, concrete floors, slag roof; Bascom J. Rowlett, Archt., Richmond Trust Bldg., Richmond. 10-6

### Miscellaneous

Ala., Birmingham—Rickwood Park let contract to J. F. Holley Construction Co., 817 19th St., for additions and improvements to baseball park; erect 2-story, 90-ft. entrance; 200-ft. extension to grandstand, negro bleacher and grandstand of 80 ft. each, steel construction, concrete floors and boxes; Paul Wright, Archt., Brown-Marx Bldg.

Ga., Folkston—J. C. Littlefield, L. E. Mallard, William Mizell, Jr., and E. B. Stapleton let contract to E. W. Shivar for 25x50-ft. brick building to be operated as restaurant by Dr. and Mrs. W. E. Banks; metal ceiling and roof, plate glass front.

S. C., Myrtle Beach—Col. Holmes B. Springs, Mgr., of beach properties for Woodside interests, let contract to Morris-McCoy Building Co., Greenville, for \$100,000, 2-story, 38x120 ft., brick, tile and stucco clubhouse; Johnson & Brennan, Archts., Peoples Natl. Bank Bldg., Lynchburg, Va. 12-15

Tex., Dallas—Charles F. Welland Undertaking Co., 517 N. Envoy St., started excavation for foundation of 2-story and basement, brick and tile building at 2909-15 Live Oak St.; H. A. Overbeck, Archt.; Fred F. and C. F. Peterman, Contrs., both Mercantile Bank Bldg.

### Schools

Ala., Birmingham—Board of Education, D. E. McKinley, Business Mgr., 2320 Eighth Ave. North, let following contracts: Thomas Purvis, 904 Cotton Ave., for Woodrow Wilson

School at 11th St. and Fourth Terrace; 2 stories, 196x55 ft., brick walls, stone trim, reinforced concrete, wood and concrete floors, tar and gravel roof; Miller Brothers, 2024 Fourth Ave. N., for Minnie Holman school, S. Eighth Ave. and 53rd St.; 3 stories, 196x45 ft., and 1-story boiler room, 41x39 ft., brick walls, stone trim, composition roof, steam heat; also on Council School addition, 3 stories, 61x81 ft., 12 rooms, office and toilets; also Bush School addition, 25th St. and Avenue K, Ensley, 2 stories, 3 rooms, corridors and toilets; L. C. Ellison, 2907 16th Ave., for Glen Iris School addition, S. 11th St. and 14th Ave., 38x103 ft., 8 rooms and corridors; also Acipo School addition, 3 stories, 36x79 ft.; C. W. Hall, 3615 13th Ave. N., for Kennedy School addition, 63rd St., brick walls, stone trim, 2 stories; Warren Knight & Davis, Archts., Empire Bldg. 12-8

D. C., Washington—District Commissioners, Room 509 District Bldg., let contract to John B. Ginechesi, Inc., 1635 Connecticut Ave. N. W., at \$108,133, for 8-room addition and combination assembly hall and gymnasium at Barnard School; Albert L. Harris, Archt., District Bldg. 12-22

Fla., St. Augustine—St. Johns County Bd. of Public Instruction let contract to Louis Fleisher & Co., Times Bldg., St. Petersburg, for \$90,000, 2-story and basement, 173x106 ft., reinforced concrete Fullerwood School, Russell and Colony Sts. and Hildreth Ave.; stucco exterior, hollow tile walls, structural steel trusses over auditorium; A. Ten Eyck Brown, Archt. and A. Barili, Jr., Asso. Archt., 717-20 Forsyth Bldg., Atlanta. 12-8

Fla., Samsula—Volusia County Board of Public Instruction, DeLand, let contract to Jesse L. Pratt, 143 Third Ave., Daytona Beach, for \$23,000 school building; 4 classrooms and auditorium.

Ga., Gainesville—Chicopee Mills Corp. of Georgia, E. A. McCormick, let contract to Fiske-Carter Construction Co., Masonic Temple Bldg., Greenville, S. C., for \$100,000, 3-story and basement, brick, stone trim school building; built-up roof, wood and concrete floors; J. E. Sirrine & Co., Archts.-Engrs., Greenville. 11-24

Ga., Milledgeville—Georgia State College for Women completed foundation for \$175,000, 4-story, face brick, hollow tile dormitory; 100x40 ft., 100x116 ft. and 100x40 ft., 300 rooms, wood floors, tin roof; furnishings and equipment cost \$30,000; J. R. MacEachren, Archt., Asheville; address proposals to L. S. Fowler, Bursar; owners to purchase material and construct by day labor. See Want Section—Bldg. Materials and Equipment. 12-22

La., Shreveport—Caddo Parish School Board let contract to Werner Co., Inc., Commercial Bank Bldg., at \$377,000, including plumbing, heating and wiring, for Fair Park High School; plumbing and heating sub-let to Fitzgerald Plumbing & Heating Co., 941 Louisiana Ave.; wiring, J. M. Trim; reinforced concrete and steel frame construction; Edward F. Neild, Archt., City Bank Bldg. 11-24

Md., Salisbury—State Normal School, Dr. William J. Holloway, Principal, let contract to Frainie Bros. & Haigley, 19 W. Franklin St., Baltimore, at \$192,500 for 3-story brick building; include auditorium seating 800; Smith & May, Archts., Calvert Bldg., Baltimore. 10-27

Okla., Tulsa—Board of Education, P. P. Claxton, Supt., let contract to Hughes, Mitchell & Quinn, Robinson Bldg., at \$47,975, for construction work at John Burroughs and Kendall schools; contract for plumbing and heating installations in Charles W. Elliott, Thomas A. Edison and Booker T. Washington schools to Thomas Rinehart at \$14,590; wiring contracts let as follows: Elliott—Dodge Electric Co., \$3250; Edison—Davison Electric Co., \$3650; Washington—Rickard Electric Co., 15 W. Sixth St., \$406; 12-22

Tenn., Clarksville—State Dept. of Education, P. L. Harned, Commr., Nashville, let contract to S. W. Bliven, Dyersburg, at about \$75,000, for repairs to Austin Peay Memorial College; Dawkins Electric Co., Memphis, electric installation at \$3500. 12-1

Tenn., Knoxville—B. T. Thomas Co. received contract at \$28,474, not including plumbing, heating and ventilating, for 1-story, 122.5x67.9-ft. McCampbell School; brick outside walls and stud inside partition walls, wood floors, concrete foundation, slate and composition roof; electric work to Henry Moses Electrical Co., 615 Market St.; plumbing, White Plumbing and Heating Co.; sheet metal, Knoxville Tinware Manufacturing Co., 310 Georgia Ave.; plastering, G. I. Howard, 322 Pettway; painting, Charles H. Lawson; glass and glazing, Knoxville Glass Co., 311 N. Broad St.; finishing hardware, Chandler & Co., 426 W. Depot; millwork, Cochrum Lumber Co., 9th Ave., Mitchell;

Berber & McMurry, Archts., General Building. 12-15

Tenn., Memphis—States Dept. of Education, P. L. Harned, Commr., Nashville, let contract to J. C. Barker, 63 S. Third St., at \$54,000 for gymnasium and to Sumner Construction Co., Nashville, at \$38,000 for additions to girls' dormitories at West Tennessee State Teachers' College; bids on new library rejected; receives new bids Dec. 28; McCrory Electric Co., 63 S. Third St., received contract for wiring at \$2450. 12-1

Tex., Brownsville—Stearnes Company, 1333 S. W. Wabash Ave., Chicago, received contract for cafeteria equipment at \$8000, for high school contract on auditorium furniture to be let after Jan. 1. 12-8

Tex., Canyon—Vernon-Williams Co., 203 W. Sixth St., Amarillo, received contract for brick to be used in construction of \$210,976, 3-story Educational Building, for which James T. Taylor, First Natl. Bank Bldg., Fort. Worth, has gen. contract; E. F. Rittenberry, Archt., 301 Blackburn Bldg., Amarillo. 12-8

Tex., Goose Creek—School Board let contract to Carl Curtis, 703 E. 10th St., at \$94,787, for James S. Hogg Junior High School; heating and plumbing to Walker Heating and Plumbing Co., \$15,975; electric work, A. T. Vick Electric Co., \$4516; Harry D. Payne, Supervising Archt., 1915 Norfolk St., all Houston. 11-24

Tex., Longview—Christy-Dolph Construction Co., Central Bank Bldg., Dallas, let following sub-contracts on 24-room, semi-fireproof, \$125,000 High School: Cast stone, Algonite Stone Co., St. Louis, Mo.; face brick, Acme Brick Co., Santa Fe Bldg.; millwork, Rogers Lumber and Manufacturing Co., 425 2d St., Dallas; structural and miscellaneous iron, North Texas Iron Works; roofing and sheet metal work, Heinz Roofing and Tile Co., both Fort Worth. 12-1

W. Va., Tanner—DeKalb District Board of Education, Francis G. Gainer, Sec., let contract to James Faris, for 3-story, native stone, 35x84 high school building; stone foundation, built-up roof; heating and

plumbing to Stuart McMunn Co.; E. C. Holmboe, Archt., Box 1051, both Clarksburg, W. Va. 12-1

### Stores

Fla., Leesburg—R. F. E. Cooke let contract to Scarborough & Miller, for 1-story, 45x102 ft. hollow tile and stucco store building. Main between Sixth and Seventh Sts.; built-up roof, plate glass, concrete and wood floors; Alan J. McDonough, Archt. 12-1

Ga., Atlanta—J. B. Campbell, 164 Andrews Drive, let contract to A. K. Adams & Co., 542 Plum St., at \$90,000, for 3-story, reinforced concrete, 181x100-ft. stores building at 195 Peachtree St.; marble, terrazzo, tile and maple floors, concrete foundation, tar and gravel roof; Lockwood, Greene & Co., Archts., Healey Bldg. 12-15

Ga., Macon—Walter H. Turpin erecting 2-story, brick and stone, 51x50 ft. stores, 568-72 Poplar St.; cement tile flooring, brick foundation, composition roof, \$12,500; Chas. W. Jones & Son, Contrs. 12-22

La., Hammond—A. Higginbotham and associates let contract to Dominick Anzalone, Independence, La., at \$24,402, for 1-story, reinforced concrete, brick, terra cotta, stone trim store building; built-up composition roof, structural steel and miscellaneous iron, plate glass windows on marble base; will be occupied by F. W. Woolworth & Co.; Norman V. Riviere, Archt., Baton Rouge. 12-22

Mo., Exeter—Wage Brothers, Contrs., Fayetteville, received contract for rebuilding block of business buildings recently burned; A. O. Clark, Archt., Rogers. 12-22

Mo., St. Louis—Sylvester Lewis Realty Co., 4919 Natural Bridge, erect \$12,500, 2-story, 34x66-ft., brick store and hall at 4908-10 Natural Bridge; composition roof, hot air heat; T. J. Craven Engineering Co., Archt., Century Bldg.; owners build. 12-22

N. C., High Point—Mrs. H. R. Broadhurst started work on 2-story, brick and stone, 49x40-ft., 3-story building on N. Main St. 12-22

N. C., Winston-Salem—Pilot Real Estate

Co., Wachovia Bank Bldg., let contract to Burns-Hammond Construction Co. for \$50,000, 88x100-ft., 2-story store and office building at Fourth and Spruce Sts. 12-1

Tex., Beaumont—E. L. Wilson Hardware Co. let contract to McDaniels Brothers, Kyle Bldg., for 2-story and basement, steel frame store building; F. W. Steinman & Son, Archts., 411 San Jacinto Life Bldg. 12-1

Tex., Brownsville—A. A. Brown let contract to Worden & Henry, Harlingen, for \$65,000, 2-story, reinforced concrete, brick, tile and stucco garage, store and hotel building; Stanley W. Bliss, Archt., Harlingen. 12-1

Tex., San Antonio—J. B. Jarmon, 919 W. Summit Place, will let contract to H. A. Miller, Builders Exchange Bldg., at \$14,525, for 1-story and balcony, 70x80 ft. furniture store, Ashby and McCollough Ave.; Morris & Noonan, Archts., Builders Exchange Bldg. 12-1

Tex., San Antonio—Charles Steffler, 122 Ada St., let contract to J. E. Dickey, 216 Eleanor St., at \$13,103, for remodeling two 2-story brick buildings; stores on first floor and lodging rooms above; plumbing to Chalkley Bros., 1222 Navarro St., \$1249; wiring, Graham & Collins Electric Co., Inc., 306 W. Commerce St.; L. Harrington Co., Archt., Builders Exchange Bldg. 12-22

Tex., Silverton—Oran Bomar, U. M. Meeker and Noah Amason erecting three 54x80-ft. brick and tile business buildings. 12-22

Tex., Wichita Falls—Mark Wilson started work on \$12,000, 1-story, brick building at 809-11 Brook Ave.; Harris H. Roberts, Archt. 12-22

### Warehouses

Mo., St. Louis—Boaz-Kiel Construction Co., 409 N. Seventh St., has contract, work to start after Jan. 1, on \$750,000, 6-story warehouse, S. W. cor. Spring and Laclede Aves., for Stix, Baer & Fuller Dry Goods Co.; Mauran, Russell & Crowell, Archts., Chemical Bldg. 12-22

Tex., Odessa—J. M. Radford Grocery Co., Abilene, started work on 120x140-ft. wholesale building. 12-22

## WANT SECTION

### THE CLASSIFICATIONS IN THIS SECTION ARE:

#### Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

#### Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

#### Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

### Machinery and Supplies

**Boiler.**—H. L. Hottel, Strasburg, Va., wants used 30 or 40 h.p. Marine type boiler.

**Bucket.**—See Tractor, etc.

**Engine (Hoisting).**—See Tractor, etc.

**Engine.**—H. L. Hottel, Strasburg, Va., wants 15 h.p. engine, used equipment.

**Hardware.**—The A. C. Grimm Co., Inc., 736 S. W. Tenth St., Miami, Fla.—Wants specialty hardware, correspond with manufacturers.

**Press (Rotary or Flat Bed).**—United Printing Co., Inc., 121 Texas Ave., Mercedes, Tex.—Wants 32 page rotary or flat bed press.

**Sewers.**—See Water Works.

**Tractor, etc.**—Thomas J. Pope, White Hall Terminal Bldg., New York City.—Wants Deering tractor together with a hoisting engine, 2 drum belt drive or direct connected to the tractor, also ¼-yd. bucket.

David L. Strain, Box 10445, Asheville, N. C., wants data and prices on following equipment for plant to produce grape juice, preserves, jellies, etc.:

- (1) Canning Machinery
- (2) Crushing Machinery
- (3) Refrigeration with full equipment.

The Rapid Battery Mfg. Co., J. F. Murrell, Pres., 1401 James St., Waco, Tex., wants following equipment:

- (1) Battery Terminals
- (2) Cable Plant—complete
- (3) Grid Molds
- (4) Lugs
- (5) Separator
- (6) Rubber Cases—in quantity lots
- (7) Wire.

**Water Works.**—Town of Mooreland, Okla., Omer Schnoebelen, E. C. Jones & Co. Engrs., Enid, will install water works and sewer system and wants the following:

- (1) Hydrants
- (2) Motor (electric)
- (3) Pump
- (4) Pipe (12-in. sewer)
- (5) Pipe (cast iron)—6, 4 and 2-in.
- (6) Disposal Plant (Imhoff.)

Lill-Worth Vineyards, Inc., H. A. Felder, Pres., Dallas, Tex., will want the following for development of 1000 acre vineyard:

- (1) Basket machines
- (2) Cooperage machines
- (3) Spraying machines
- (4) Tools
- (5) Wine crushing machinery.

Hackley Morrison Co., Inc. (Mchy. Dealer), 204 N. Jefferson St., Richmond, Va.—Wants following:

- (1) Cars—twelve 2-yd. side dump, 30-in. gauge
- (2) Locomotive—8 ton gasoline, 30-in. gauge.

### Miscellaneous

**Barges.**—Friend Sand & Gravel Co., River St., Thomas Whyte, V.-Pres., Box 395, Petersburg, Va.—Wants 2 deck barges, 100 or 110-ft. x 30-ft., must be in good condition.

**Electric Wire.**—Shelby Supply Co., Shelby, N. C.—Wants prices on electric wire, correspond with manufacturers.

**Kettle (Steam Jacketed).**—Alamo Grease Manufacturing Co., Inc., 1631 S. Laredo St., San Antonio, Tex.—Wants prices on steam jacketed grease kettle, 6-ft. diam. 6½-ft.; fabricated out of not less than ¼-in. plate.

**Knit-a-Runner Machine.**—Mrs. P. H. Chaffee, 622 N. Oak St., Pratt, Kan.—Wants ma-

chine to knit runners in silk stockings, correspond with manufacturers.

**Steel Bunks.**—Collins Granite Co., Inc., Drawer 835, Danville, Va.—Wants 16 steel bunks, new or used.

**Washing Machine.**—Parnell Crum, Davelle, Ky.—Wants a portable hand operated clothes washing machine, aluminum, to hold between 6 and 10 gals.

A. L. Stovall, 694 Avenue K, Lubbock, Tex., wants prices and catalogs on following for use in connection with manufacture of floor sweep:

- (1) Aniline—to color saw dust
- (2) Cans and Containers—100 and 200 lb. size
- (3) Mops and Brushes
- (4) Polish—for floors
- (5) Wax—for floors.
- (6) Grinding mill for saw-dust.

Sandhill Furniture Corps., West End, N. C., wants prices on following for plant manufacturing plain and antique furniture:

- (1) Glueing and Finishing Equipment
- (2) Lacquer and varnishes—for finishing furniture
- (3) Lumber—red gum rough, different grades in car loads
- (4) Plywood—panels 5/16-in. finished in red gum
- (5) Walnut Veneers
- (6) Woodworking Machinery
- (7) Machine for affixing rail blocks on wood wheels.

### Building Material and Equipment

Percy Thigpen, Ocala, Fla., wants prices on following for \$16,500 residence:

- Electric Refrigerators
- Roofing—tile
- Tile—hollow.



Chas. H. McCauley, Archt., 708 Jackson Bldg., Birmingham, Ala., wants prices on following for one \$30,000 and one \$60,000 dwelling:

**Flooring**—hardwood, tile, composition rubber tile  
**Limestone**

**Roofing**—copper shingle, slate.  
Clinton Building Co., 150 Urner Ave., Memphis, Tenn., wants prices on following for \$18,000 Sunday school:

**Oil Burners**  
**Roofing**—asphalt shingle, built-up.

H. D. Mendenhall, Archt., 311 E. Main St., Lakeland, Fla., wants prices on following for apartment house and 9 flats, costing \$35,000, at Tallahassee:

**Cast Stone**  
**Electric Refrigerators**  
**Flooring**—hardwood and linoleum  
**Incinerator**  
**Roofing**—asbestos and asphalt shingle  
**Terra Cotta Trim.**

J. H. Sutherland, Dickinson County Board of Education, Clintwood, Va., wants prices on following for school at Steinman:

**Rolling Partitions**  
**Ventilators.**

L. S. Fowler, Bursar, Georgia State College for Women, Milledgeville, Ga., wants prices on following for \$175,000 dormitory:

**Tile**—hollow.  
Hentz, Adler & Shutze, Archts., 1330 Candler Bldg., Atlanta, Ga., wants prices on following for \$85,000 Medical Arts Bldg., Macon, Ga.:

**Elevators**  
**Flooring**—linoleum, terrazzo  
**Limestone**  
**Marble**  
**Roofing**—built-up  
**Steel Sash and Trim.**

W. B. Palmer, Los Fresnos, Texas, wants prices on following for \$8000 store and filling station:

**Bathroom Fixtures**  
**Cafe Fixtures**  
**Fountain Fixtures**  
**Plaster Board**  
**Show Cases**  
**Wire Glass.**

Eugene John Stern, Archt., A. O. U. W. Bldg., Little Rock, Ark., wants prices on following for \$150,000 hospital:

**Electric Refrigerator**  
**Elevators**  
**Flooring**—linoleum, tile  
**Limestone**  
**Marble**  
**Metal Doors**  
**Roofing**—tile  
**Tile**—gypsum or hollow.

Rev. Wilson Woodcock, Pastor, Forest Avenue Baptist Church, Greensboro, N. C., wants prices on following for \$125,000 church:

**Cast Stone**  
**Rolling Partitions**  
**Roofing**  
**Terra Cotta Trim.**

First Baptist Church Bldg. Comm., M. H. Goodwin, Chmn., Thomasville, Ga., ready to consider purchase of following for \$85,000 building: Combined heating and cooling plant, furniture, pipe organ, benches and other furnishings.

### Bids Asked

**Absorbent Cotton.**—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 31 for 5000 pkgs. absorbent cotton, 1-lb. packages.

**Bags (Paper).**—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Jan. 7 to furnish 170,000 Kraft paper bags; delivery Quantico, Va. Sch. 346.

**Blocking Board.**—Purchasing Agt., Government Printing Office, Washington, D. C.—Receives bids Jan. 1 for 5000 cherry blocking board.

**Boiler Work.**—U. S. Engr., Vicksburg, Miss.—Receives bids Jan. 17 for removing 2 and installing 3 new boilers on barge.

**Boilers.**—See Water Works Improvement.

**Boxes.**—Director of Purchase and Sales, Department of Agriculture, Washington, D. C.—Receives bids Jan. 3 for 2000 corrugated boxes.

**Brick.**—U. S. Shipping Board, Washington, D. C.—Receives bids Jan. 20 for fire brick, fire clay and plastic fire brick refractories for 6 or 12 months period beginning Feb. 1.

**Bridge.**—Bay St. Louis, Miss. See Construction News—Bridges, Culverts, Viaducts.

**Bridge.**—Houston, Tex. See Construction News—Bridges, Culverts, Viaducts.

**Bridge Materials.**—Lee County Supvrs.,

Tupelo, Miss.—Receives bids Jan. 2 to furnish bridge material for county and each of road districts for year 1928.

**Bridges.**—State of Alabama receives bids for 31 bridges. See Construction News—Roads, Streets, Paving.

**Bridges.**—State Highway Comm., Austin, Tex., receives bids for 3 bridges. See Construction News—Bridges, Culverts, Viaducts.

**Brushes.**—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 30 for 1350 hand scrub brushes; 150 doz. tooth brushes.

**Building Material.**—Quartermaster, Ft. Bliss, Tex.—Receives bids Jan. 12 (Cir. 17) for shingles, lumber, wire screens, roofing paper, nails, etc.

**Cartridges.**—Commanding Officer, Frankford Arsenal, Pa.—Receives bids Feb. 3 for 200,000 rounds cartridges, and on Jan. 4 for 17,750,000 rounds cartridges.

**Cases and Tables.**—Purchasing Agt., Post Office Department, Washington, D. C.—Receives bids Jan. 4 for cases and tables.

**Clock.**—Purchasing Agt., Post Office Dept., Washington, D. C.—Receives bids Jan. 4 for time recording clock.

**Combs (Men's).**—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 31 for 2200 men's combs.

**Conduits and Bends.**—Board of Awards, City Register, Baltimore, Md.—Receives bids Jan. 3, 1928, for about 100,000 ft. of 3-in. fibre conduit; about 1,000 ft. of 3-in. fibre bends; and 500,000 ft. of vitrified clay conduit for use of the Bureau of Mechanical-Electrical service; C. F. Goob, Ch. Engr.

**Derrick.**—Alabama State Docks Comm., Second Floor, State Office Bldg., Mobile, Ala.—Receives bids Jan. 4 for furnishing and erecting 75 ton derrick.

**Dredge.**—U. S. Engr., Wilmington, Del.—Receives bids Jan. 4 for furnishing and operating hydraulic pipe line dredge.

**Drugs.**—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 29 for drugs.

**Electric Refrigerators.**—Quartermaster, Marine Corps, Washington, D. C.—Receives bids Jan. 4 for 2 electric refrigerators.

**Electric Roasting Ovens.**—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Jan. 3 for electric roasting ovens, etc.

**Electrical Supplies.**—Quartermaster, Bolling Field, D. C.—Receives bids Jan. 3 for oil switch, regulator, cable, transformers, etc.

**Embankment.**—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, La.—Receives bids Jan. 11, 1928 to construct embankment on following highway: Fed. Aid Project 173-B, Unit No. 1, St. Charles Parish, Baton Rouge-New Orleans (Air Line) highway, about 4536 miles; work consists of clearing, grubbing right of way and construct roadway embankment, about 1,018,000 cu. yds. dredged embankment; Nicholas W. Bowden, State Highway Engr.

**Fire Fighting Equipment.**—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Jan. 4 for 750 gal. triple combination chemical engine and hose cart.

**Gasoline and Oil.**—State Highway Comm., Richmond, Va.—Receives bids Dec. 30 on approximately 413,000 gal. gasoline and 26,000 gals. oil.

**Grading Machine.**—Hillsboro County Commrs., W. T. Williams, Chmn., Tampa, Fla.—Receives bids Jan. 6, 1928, for tractor driven one-man grading machine; W. A. Dickenson, Clerk.

**Guard Rails.**—State of Alabama receives bids for guard rails. See Construction News—Roads, Streets, Paving.

**Hubs, etc.**—U. S. Shipping Bd., Washington, D. C.—Receives bids Jan. 6 for propeller hubs, including bolts, nuts and fair water caps for period of 12 months.

**Ice Picks.**—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Jan. 3 for 420 ice picks.

**Lathes (Engine).**—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Receives bids Jan. 3 for engine lathes.

**Laundry Equipment.**—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Jan. 5 for laundry machinery for U. S. V. Hospital, Perry Point, Md.

**Lock Boxes.**—Pur. Agt., Post Office Dept., Washington, D. C.—Receives bids Jan. 4 for lock boxes.

**Lumber.**—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Jan. 6 to furnish lumber, delivery Marine Corps, carpenter shop, 520 Twenty-sixth St. N. W., Washington, D. C. Sch. 345.

**Mailing Cases.**—Director of Purchase and Sales, Department of Agriculture, Washing-

ton, D. C.—Receives bids Jan. 3 for 3000 chipboard mailing cases.

**Metal Buildings.**—U. S. Coast Guard, Washington, D. C.—Receives bids Jan. 3, 1928, to provide at U. S. Coast Guard Section Base No. 2, Pier 18, Staten Island, N. Y., three 1-story metal buildings, standard manufacture, total floor area of 24,000 sq. ft.

**Miscellaneous Supplies.**—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids Jan. 9, 1928 for following: Circular No. 1849:

**Steel pipe, boiler tubes, poultry netting, chain shackles, cable clips, anchors, turnbuckles, telephone switchboards, pianos, folding chairs, clocks, files, drills, scythe blades, rubber boots, canvas, etc.**

**Paving.**—Covington, La. See Construction News—Roads, Streets, Paving.

**Paving Breakers.**—U. S. Engr., Huntington, W. Va.—Receives bids Jan. 3 for 5 pneumatic paving breakers.

**Pipe (Cast Iron).**—See Water Works.

**Pipe (Reinforcing Concrete).**—Board of Awards, Baltimore, Md., Milton J. Ruark, Sewerage Engr.—Receives bids Jan. 4 for furnishing and loading reinforced concrete pipe.

**Pipe.**—U. S. Engr., Jacksonville, Fla.—Receives bids Jan. 3 for lapwelded suction and discharge pipe.

**Pipe, etc.**—U. S. Engineer, Huntington, W. Va.—Receives bids Jan. 3 for 80 ft. pipe, 24 flanges.

**Propellers.**—U. S. Shipping Bd., Washington, D. C.—Receives bids Jan. 6 for manganese bronze propeller blades for period of 12 months.

**Pumping Equipment.**—Board of Awards, Baltimore, Md., Edward G. Rost, Water Engr.—Receives bids Jan. 4 for furnishing and delivering pumping equipment to Catonsville automatic pumping station.

**Pumps.**—See Water Works Improvement.

**Pumps.**—See Water Works.

**Refrigerator.**—Director of Purchase and Sales, Department of Agriculture, Washington, D. C.—Receives bids Jan. 3 for automatic electric refrigerator.

**Roads.**—State of Alabama receives bids for 9 roads. See Construction News—Roads, Streets, Paving.

**Rubber Hot Water Bottles.**—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 31 for 1050 rubber hot water bottles, 2 qt. capacity.

**School Furniture and Equipment.**—Board of Awards, office of City Register, Baltimore, Md.—Receives bids Jan. 4, 1928, for furniture and equipment, cafeteria equipment and laboratory equipment for Dept. of Education; Joshua R. Jolly, Acting Sec. Board of School Commrs.

**Screwdrivers.**—Purchasing Agent, Post Office Dept., Washington, D. C.—Receives bids Jan. 4 for 96 doz. screwdrivers.

**Sewers.**—City of Huntington, W. Va., Homer L. Yelch, Commr. of Streets.—Receives bids Jan. 9 for constructing lateral sewers in right of way through Ferguson property.

**Shafts.**—U. S. Shipping Board, Washington, D. C.—Receives bids Jan. 6 for solid propeller shafts, including nuts, keys, keepers and sleeves for period of 12 months.

**Sidewalks.**—Charleston, S. C. See Construction News—Roads, Streets, Paving.

**Steam Tables, etc.**—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Jan. 4, 1928 for steam tables and urn stands for U. S. V. Hospital, Oteen, N. C.

**Steel Drums.**—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Jan. 5, 1928, to furnish 1,000 steel drums, delivery Hampton Roads, Va. Sch. 343.

**Street.**—Tampa, Fla. See Construction News—Roads, Streets, Paving.

**Tables.**—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 30 for 14 kitchen tables, 29-in. high, white porcelain top.

**Tin.**—Chemical Warfare Service, Edgewood Arsenal, Md.—Receives bids Jan. 3 for 2128 sheets perforated tin.

**Tobacco Products.**—Quartermaster Supply Officer, Ft. Sam Houston, Tex.—Receives bids Jan. 4 for cigars, cigarettes and tobacco.

**Tractor, etc.**—H. L. Washburn, Harris County Auditor, Tex.—Receives bids Jan. 3 for two roadster trucks and bodies; two 1 ton trucks with cab and 10 cars lumber.

**Tractor and Grader.**—W. E. Yancy, Tarrant County Auditor, Fort Worth, Tex.—Receives bids Jan. 5 for one 10 ton, crawler type road tractor and one 12 ft. grader.

**Water Pipes.**—Treasury Dept., Washington, D. C.—Receives bids Jan. 17 for furnishing and installing portion of water pipes with brass pipe at U. S. postoffice and court house, Norfolk.

**Water Works.**—City of Menard, Tex., Koch & Fowler, Const. Engrs., 801 Central Bank Bldg., Dallas.—Receives bids Dec. 29 for water works and appurtenances, pumping units, etc., including furnishing all materials, equipment and labor to lay new water mains and appurtenances; furnishing all material, tools, equipment and labor for concrete pump house, concrete mixing basin, 3 concrete sedimentation basins, concrete storage reservoir; furnishing 3 horizontal type, direct connected, electric driven, centrifugal pumping units, two to deliver 250 gal. per minute under total head of 150 ft. and other to deliver 250 gal. per minute under head of 35 ft.; following amount of work will be required for water mains and accessories: 5410 ft. of 8-in. cast iron pipe; 3140 ft. of 6-in. cast iron pipe; specials, fire hydrants, gate valves and boxes.

**Water Works Improvement.**—City of Greensboro, N. C., P. C. Painter, Mgr.—Receives bids Jan. 10 for furnishing material and labor and constructing addition with appurtenances to engine and boiler room of city pumping station on Battleground Rd.; for stack at city pumping station; to furnish and erect complete two 250 h.p. steel case, water tube boilers, together with improvements on existing water tube boiler; and to furnish and erect complete ready for use on foundation provided by city: Alternate No. 1—two 8,000,000 gal. per day impellers, capacity, geared, steam turbine driven centrifugal pumps, water works type condenser, air pumps, auxiliary oil pumps, oil storage tanks, oil filters, oil coolers, gauges, etc., complete; Alternate No. 2—two 8,000,000 gal. per day, geared steam turbine driven centrifugal pumps, water works type condenser, oil coolers, etc.; Alternate No. 1 and No. 2 with steam turbine driven centrifugal condenser pumps and radojets in lieu of air pumps.

#### A New Acetylene Outfit.

The Prest-O-Lite Company, Inc., 30 East 42d street, New York city, says that an inexpensive acetylene outfit has been developed consisting of a light blowpipe handle and a set of special tips, giving flames suitable for a wide range of work, in which a flame less hot than is needed for welding may be used. This outfit is most conveniently used with a small gas tank, like that on a motorcycle or truck and a six-foot length of hose. Small furnaces for heating lead, paraffine, etc., are also manufactured. The complete portability of the outfit is a great advantage; no preheating is required; turn on the gas, light the torch and the job is begun. This gas is used in shops, by electricians, in laboratories, by painters, by marble workers, in shoe factories, etc.

## INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

#### Mechanical and Chemical Consulting Engineer.

W. D. Mount, mechanical and chemical engineer, Lynchburg, Va., who is also consulting engineer for the Swenson Evaporator Company of Harvey, Ill.; the National Construction Company, London, England, and the Canada Iron Foundries, Ltd., of Montreal, Canada, now has his office at 602 People's National Bank Building in Lynchburg. Some time ago the Swenson Evaporator Company, a subsidiary of the Whiting Corporation of Harvey, Ill., took over the manufacture and sale in the United States of his special line of apparatus and equipment, heretofore manufactured and sold by the Glamorgan Pipe and Foundry Company of Lynchburg. The same apparatus and equipment is also manufactured and sold to the Dominion of Canada by the Canada Iron Foundries, Ltd., of Montreal, Canada, and in England and on the Continent by the National Construction Company, Ltd., of London.

#### Byers Takes Over Massillon Shovel Co.

The Byers Machine Company of Ravenna, Ohio, has purchased the Massillon Power Shovel Company of Massillon, Ohio, the Byers people buying the Massillon stock, taking over the entire distribution and sales of Massillon shovels, along with the Byers Bear Cat line. It is stated that important economies will be effected, but the principal reason for the deal was to provide a complete line of shovels and cranes from one-half yard to 1½-yard capacity, attention being particularly directed to the Byers line of half-revolving and full-revolving types and from one-half to five-eighths-yard capacity, and to the Massillon gas shovel of one and also 1½-yard capacity. Steam shovels are also made at the latter plant. The present manufacturing plants of both companies will be continued, the Massillon shovels being built as before at Massillon under the direction of E. H. Birney, president of the Massillon Power Shovel Company.

#### Office Removal Announced.

Cards have been sent out announcing the removal of the main office of the Eppinger and Russell Company, wood preservers since 1878, to the Park-Murray Building, 11 Park Place, New York city. The company's creosoting plants are at Long Island City, N. Y., and Jacksonville, Fla.

#### Granite City Steel Company.

The Granite City Steel Company, a wholly owned subsidiary corporation of the National Enameling and Stamping Company, has been incorporated to own and operate the steel works of the latter's business and it will hereafter conduct the steel works properties at Granite City, Ill., without any change being made in either the executive or the operating management. The products of the plant include galvanized, blue annealed and black sheets, plates and tin plates.

#### Bids Invited for Electric Plant.

The city council of Kinston, N. C., has postponed the date for receiving bids for the municipal electric-light plant until Tuesday, February 7, at 7.30 P. M. A formal announcement of this appears elsewhere in this issue. The sale of the plant is to include franchise to do business in the city of Kinston, including street lighting, and bids therefor, as well as for the plant and the franchise, are invited, together with rates for power and lighting to consumers. Particulars will be found in the advertisement. W. A. Mitchell is mayor and W. B. Coleman, city clerk.

#### Peter Smith Heater and Manufacturing Co.

Zeno C. Wilkinson has resigned as sales manager of the Youngstown Pressed Steel Company, Warren, Ohio, and has become vice-president and director of the Peter Smith Heater and Manufacturing Company of Detroit, Mich. He was successively with the United States Steel Corporation and the Bethlehem Steel Corporation before his engagement at Warren. The Peter Smith Heater and Manufacturing Company is the new name for the Peter Smith Heater Company, which has manufactured heating units in Detroit for railroad cars for 45 years. There will be two divisions of the work: On the pressed-steel side from 35 to 50 presses will be operated for making steel parts from the smallest to the largest; in connection with this there will be an engineering service department. The heater division will devote itself to the manufacture of heaters for railroad cars, together with specialties in that line. E. J. Smith is president and M. J. Phelan secretary of the company. An addition will be made next spring to the plant on Hagerty avenue, and the heater division will be moved there from Wilbor street.

#### Use of Gas Fuel in Industry.

Oscar H. Fogg, president of the American Gas Association, 420 Lexington avenue, New York city, in a review of 1927 and a forecast for 1928, says: "The development of appliances and rates for a wider application of gas in industry has reached a point where gas is now recognized as the cleanest, most convenient and sanitary fuel for manufacturing purposes. Plant engineers now recognize that gas has many intangible values which should properly be considered when comparing fuel costs. Complete cost analysis invariably shows gas to be the cheaper fuel, even though a direct comparison of fuel alone may indicate that gas is slightly more expensive. The cost of labor and the value of property is, in most communities, reaching such significant figures that fuel cost is secondary. Invariably, the use of gas results in space conservation and improved working conditions."

#### Excavating Machines With Full Diesel Engines.

After experimenting for more than four years with many types of Diesel engines, made both here and abroad, the Harnischfeger Corporation, Milwaukee, Wis., have announced their production of Diesel equipped excavators in 1-yard and 1¼-yard sizes for shovels and draglines and in 1¼ and 1½-yard sizes for rehandling clamshell service. The engines are of the four-cylinder type and the fuel oil is injected mechanically and not by air, thus eliminating compressors. The engines, which are "full Diesel," are started up cold, it is stated, without any priming or reheating. They burn a low grade of fuel oil and it is noted the engine on the 1-yard excavator consumes from 18 to 20 gallons per nine-hour shift, and that on the 1¼ size from 24 to 28 gallons in the same time. It is claimed that this engine is ideal for heavy duty and it is noted that the combination of low-cost oil, with minimum maintenance expenses, assures low yardage costs.

#### F. E. Myers & Bro., Reorganized at Ashland, Ohio.

At a recent meeting of the stockholders of the F. E. Myers & Bro. Co., Ashland, Ohio, it was decided to sell and transfer all property and assets of the existing corporation over to a new company organized under the same name. The new company will have authorized capital stock of \$3,000,000 of 6 per cent cumulative preferred shares and 200,000 shares of no-par common stock. The management will not be changed, the new officers being P. A. Myers, president; John C. Myers, first; Guy C. Myers, second; A. N. Myers, third, and G. D. Myers, fourth vice-president; F. B. Kellogg, secretary and treasurer. Other direc-



tors are T. W. Miller of the Faultless Rubber Company of Ashland and J. R. Nutt, president of the Union Trust Company, and L. B. Williams of Hayden, Miller & Co., both of Cleveland. Much of the stock is to be offered for sale to the public, as it will be listed on the Cleveland Stock Exchange. The Myers firm has long been widely known as manufacturers of pumps, hay tools and door hangers.

### Trade Literature

#### Martinez Wood Sheet Piling.

Albert A. Martinez, designer, inventor and owner of the Martinez Interlock Wood Sheet Piling, Baronne Building, New Orleans, La., has published Bulletin No. 17, which contains several interesting illustrations showing applications of this piling, one of them being of a watertight cofferdam for the abutment of a bascule bridge at Michigan City, Ind. Another large and panoramic view shows the use of 4300 linear feet of this piling, driven in August last to close the artificial crevasse at Caernarvon, La., which had been created during the spring floods to prevent the river from flooding New Orleans. The timber and sheet piling were furnished by the Gulf States Creosoting Company, the Great Southern Lumber Company and the Edward Hines Lumber Company, and it was installed by Hampton Reynolds, contractor, of New Orleans. Other circulars and folders show details about the piling.

#### Worthington Railroad Equipment.

"Worthington Equipment for Railroads" is the title given to Bulletin No. WP-1000, issued by the Worthington Pump and Machinery Corporation, 115 Broadway, New York city. This railroad equipment includes such products as pumps, air compressors, steam condensers, oil engines, meters for water or for oil, locomotive feed-water heaters and pumps, and open stationary feed-water heaters, etc. Worthington feed-water heaters are used on the enormous Mallet type locomotives of the Virginian Railway, and a picture of one of these engines so equipped is in the bulletin. There are also a number of other fine illustrations pertinent to the subject matter.

#### Hell Truck Tanks and Storage Tanks.

The Hell Company, Milwaukee, Wis., has published two very interesting illustrated bulletins. Bulletin 176 gives full particulars concerning the Hell fuel-oil truck tanks with pump units, the pictures and diagrams showing details of construction and also the truck tanks in operation. Bulletin 177 considers with equal completeness the company's storage tanks, comprising bulk station horizontal or vertical tanks and underground service station fuel-oil burner tanks. One of the illustrations shows that there is a large stock of tanks carried by the manufacturers.

#### Barrett-Cravens Handling Equipment.

A large and profusely illustrated folder issued by the Barrett-Cravens Company, 1326 Monroe street, Chicago, gives many facts concerning the Barrett Handling Equipment line, which includes portable elevators, storage racks, lift trucks and platforms, hoists, barrel trucks, etc. Five bulletins are also issued by the company, each of which deals in detail with some one of these products, giving full particulars.

#### A Magazine Concerning Saws.

The Saw Kerf, Volume 2, Number 5, the Fall Issue, 1927, contains some very interesting articles, including those on reforestation, chain saws, friction, suggestions for the care of small circular rip and cut-off saws, light and heavy strain on band mills and why; also a story on the National Hardwood Lumber Association convention. The magazine, which contains 20 pages, is finely illustrated. It is published by E. C. Atkins & Co., manufacturers of saws, saw tools and machine knives, Indianapolis, Ind. The front cover page carries a picture of the beautiful Snoqualmie Falls, in the State of Washington, which is reproduced through the courtesy of the Snoqualmie Falls Lumber Company.

#### Bulletins on New Sullivan Drills.

The Sullivan Machinery Company, Chicago, Ill., have issued two bulletins on new Sullivan drills. Bulletin 81-0 relates to the Sullivan Auger Rotators, Class H-8, and in its eight pages fully describes and illustrates these drills, which are employed for drilling in very soft ore, coal or soft and broken rock, hardpan, frozen ground, etc. Bulletin 81-Q concerns the company's L-5 Medium and L-3 Heavy Rotator rock drills, which are intended for use on medium heavy rock drilling work on down holes where the drill is held by hand, or in very hard rock for deep holes, or else under other severe drilling conditions in open-cut construction work, in quarries or in mines.

#### Facts About Concrete.

A strongly bound book of 204 pages, pocket size, covering the subject "Concrete: Its Manufacture and Use," as stated in the title, has been published by the Koehring Company of Milwaukee, Wis., manufacturers of pavers, mixers, gasoline shovels, cranes, draglines, etc. This is a completely revised edition of a treatise which has long been popular with contractors and engineers. It contains tables, entirely new, on quantities of materials required and the contents of the book generally are also brought up to the minute. It is finely printed on strong paper and it is illustrated. On receipt of request the company will send a copy to any interested person or firm.

#### Moroney Book on Refractories.

John J. Moroney & Co. of Chicago, manufacturers of the Moroney Fire Brick, have issued an illustrated book of 48 pages concerning fire-clay refractories, brick, tile and their use. It is a catalogue showing the standard shapes carried in stock; also useful tables, information about fire brick, the laying of them and a description of each brand. There is information about high-temperature cement, air-setting cement, firebrick mortar, plastic furnace lining and ground fire clay. The services of the engineering department of the firm are offered.

#### Ideal Electric Alternator Bulletin.

The Ideal Electric and Manufacturing Company of Mansfield, Ohio, have published a new alternator bulletin, No. 151, which presents pictorially full information concerning the six different types of alternators they manufacture. This 20-page bulletin contains 47 different halftone pictures, besides eight full-page tabulations of dimensions for outline prints. It is stated that for the first time by a unique system outline dimensions are obtained directly from rating. The flywheel-effect requirements for engine-driven alternators is thoroughly explained.

#### Efficiency of Metered Combustion Control.

Metered combustion control as used at the Manchester Street Station of the United Electric Railways Company of Providence, R. I., is described in a paper by A. S. Davis, superintendent, which has been reprinted and is being distributed by the Leeds and Northrup Company, 4901 Stenton Avenue, Philadelphia, Pa. The rate of combustion is regulated according to the steam demand by a master controller connected to the steam header, so that it responds to drop in pressure due to flow of steam and sets up an electrical control current proportional thereto. This current co-operates with control devices which actually meter the pulverized coal and the air supplied to burn it, to hold the two in a definite ratio and in proper amount to meet the steam demand. It is stated that the use of this equipment has resulted in more efficient operation, higher boiler efficiency and lower furnace maintenance.

#### Reinforced Concrete Construction.

A handbook on Reinforced Concrete Construction has been prepared and issued by the Concrete Reinforcing Steel Institute, Tribune Tower, Chicago, Ill. In publishing this book the institute has attempted to establish a practical standard for its industry by assembling in a composite whole the expert thought of its members, "the fabricators of 95 per cent of the new billet reinforcing steel sold in this country." In addition to a concise chapter on design there are many others of unusual interest. One concerns the code of standard practice of members of the institute, which, it is claimed, will clear up causes for disputes due to lack of complete clarity in specifications or in contracts. The opening chapter covers in a general way work examples and historical references on reinforced concrete.

#### Godfrey Oxygen-Jet Cutting Machine.

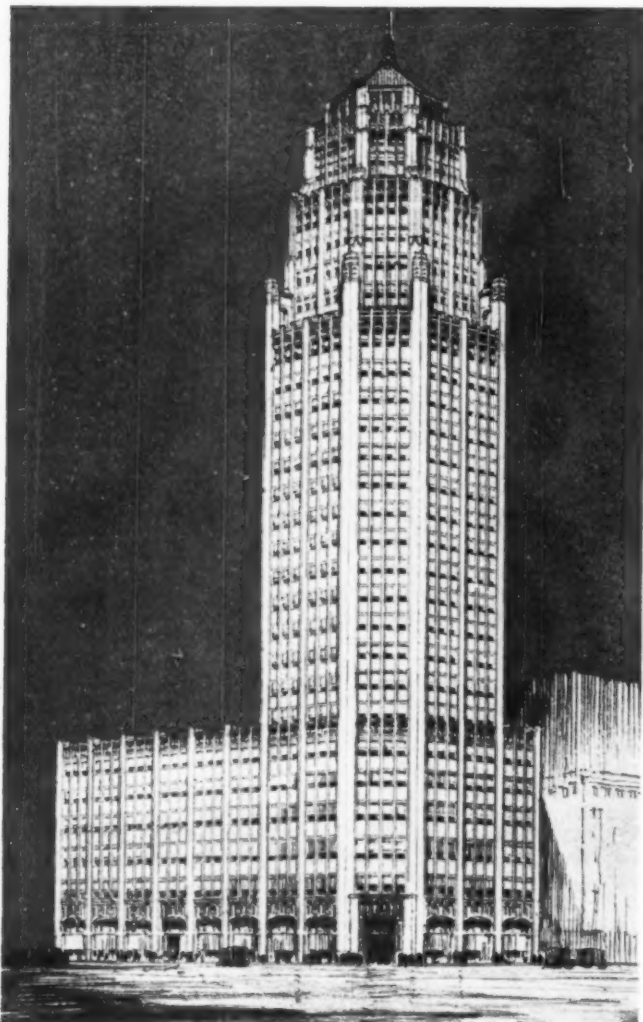
The Godfrey Oxygen-Jet Cutting Machine, which is claimed to be "the most efficient, accurate and speedy method of cutting and shaping steel, mild steel, chrome nickel steel, manganese steel, cast steel and wrought iron," is described and illustrated in a bulletin of 16 pages issued by the Hubar-Jones Corporation, sales engineers, 13 Astor Place, New York city, and 4 Hospital street, Montreal, Canada. It is further stated that the cutting flame does not in any way deteriorate, harden or otherwise injure the cut face of the metal and that subsequent annealing is absolutely unnecessary. All moving parts have ball bearings and ball thrust washers, minimizing friction, so that a one-quarter horsepower electric motor will operate the machine.

#### Nitriding Process to Harden Steel.

The Ludlum Steel Company, Watervliet, N. Y., has published in bulletin form a most interesting and pertinent treatise on the new Nitriding Process for the hardening of steel. It is titled "Nitalloy and the Nitriding Process" and there are 23 pages, with appropriate illustrations. The foreword says that "while ordinary carbon and alloy steels do not acquire any great degree of hardness when subjected to nitrogen, a series of ternary and quaternary alloy steels have been evolved which are capable of being surface hardened to a very high degree by ammonia as a solution to many difficult manufacturing problems." It is further shown that the surface hardening does not peel off, although it is hardened to a degree hitherto unknown.

### 31-Story \$2,000,000 Building for San Antonio.

Plans will soon be completed for a new 31-story store and office building to be erected in San Antonio for the Smith Brothers Properties, Inc., of that city. The structure will have a frontage of approximately 150 feet on South St. Marys street with a depth of about 100 feet on Villita street, and will be of steel frame construction with floor slabs of rein-



SMITH BROTHERS PROPERTIES BUILDING, SAN ANTONIO.

forced concrete and steel, the two lower stories to be faced with stone starting from a six-foot granite base. All upper stories will be faced with a light-colored brick backed up with hollow tile; partitions will be of gypsum block. Floors will be in marble tile and terrazzo, the wainscoting of marble and all walls and ceilings finished with patent plaster. Woodwork will be of oak. The basement will contain a heating plant and storage space for offices. Nine high-speed elevators of the automatic control type will be installed. Atlee B. and Robert M. Ayres, San Antonio, are the architects and the McKenzie Construction Company is contractor. Work is expected to begin at once.

### New Unit of \$3,000,000 Apartment Project.

Washington, D. C.—Work will soon be started on the seventh unit of the co-operative apartment building project at Connecticut avenue and Tilden street, this city, which is being carried out by M. & R. B. Warren, according to an announcement by the company. This unit will contain 20 suites, with a total of 123 rooms, and will cost about \$300,000. It is

the largest unit so far started and will be of English architecture with frontages of 179 and 196 feet. The total cost of the seven buildings will be about \$3,000,000.

### Progress of Big Myrtle Beach Development— Project Embraces 66,000 Acres and 12 Miles Ocean Front.

Outlining progress on the big development at Myrtle Beach, S. C., which was undertaken about June 1, 1926, by the Woodside interests, H. T. Willcox of the Myrtle Beach Sales Company advises that a large amount of work has been accomplished, including the construction of nearly 15 miles of streets and sidewalks, white way system and two hotels. Water and electric light systems have been installed, residential and business buildings have been erected and all buildings of the company have been repaired and repainted where necessary. This work has involved an expenditure of about \$400,000 at the Myrtle Beach settlement alone and does not include improvements under way or projected in the new golf course or Ocean Forests section, which are estimated to cost several hundred thousands of dollars.

The entire development embraces 66,505 acres, including a 1200-acre farm and 12 miles of ocean frontage. The golf course section is now under way and will be connected with the present section by a new road four miles long to be paved to width of 100 feet and on which a boulevard lighting system will be installed. An 18-hole course has practically been completed, the first of four to be constructed, and it is understood that Robert White of Mount Vernon, N. Y., who supervised construction, will move to Myrtle Beach to operate it and give instructions in golf.

A power transmission line to connect the present light plant with the new section is under construction and will extend for a distance of four miles. It will serve the equipment for a new artesian well which has been drilled, country club, hotel and other buildings to be erected this fall and winter. The proposed club building will cost about \$115,000 and the hotel about \$1,250,000.

A telephone line connecting Myrtle Beach with the Southern Bell system at Conway, S. C., was completed during the summer and is owned by the Myrtle Beach Sales Company. Highways leading to the beach are being improved and the State Highway Department plans to treat the road between Conway and Myrtle Beach this fall and winter, a section between Conway and Gallivants Ferry being already under treatment.

The Atlantic Coast Line Railroad is expending approximately \$500,000 for the improvement of its line to Myrtle Beach, the improvements to involve straightening a road from Elrod, N. C., to Conway and laying 85-pound rail from Conway to Myrtle Beach to enable the heaviest Pullmans to run there.

Jones & Trott of Greenville, S. C., are architects for the buildings and Southern Builders, Inc., of Florence, S. C., are the general contractors. Other contractors include the following:

Electric lighting system and highway lighting—Electric Supply and Equipment Company, Charlotte, N. C.

100,000-gallon water tower—Pittsburgh-Des Moines Steel Company, Pittsburgh, Pa.

Artesian well pumping system and water distribution system, grading, paving, curb and gutter, sidewalks and foundation—Fiske-Carter Construction Company, Greenville.

Valves, fire hydrants and service connections—Charlotte branch of Grinnell Company, Inc., of Providence, R. I.

Wiring and plumbing in hotels—Huntington & Guerry and Edens & Moon, both of Greenville.



# Those Old TITANS

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Every now and then, the picture of some industrial giant or financial genius of twenty-five or thirty years ago, appears in a current magazine.

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HOUSTON  
SAN ANTONIO  
WACO  
DENVER  
SAN FRANCISCO  
LOS ANGELES

# FINANCIAL NEWS

## Bond Issues Proposed

Ala., Eufaula—Funding—City, Ruby D. McEachern, Clk., receives bids Jan. 3 for \$30,000, 5, 5½ and 6% bonds.

Ark., Texarkana—City considering voting on \$74,000 bonds: \$35,000, airport; \$24,000, bridges; \$15,000, grade raising. Address City Clerk.

Fla., DeLand—Volusia County defeated \$100,000 bond issue to defray cost of obtaining right of way for State Road No. 4 through Volusia County. Address County Commrs.

Fla., Marianna—Road—Jackson County votes soon on bonds. Address County Commrs.

Fla., New Port Richey—Library—City voted \$15,000 bonds. Address City Clk.

Fla., St. Augustine—City, O. G. Oldfather, Auditor and Clk., receives bids Jan. 4 for \$500,000 5¼% \$1000 denom. Revenue bonds, First Series 1928.

Fla., St. Augustine—City, C. G. Oldfather, Auditor and Clk., receives bids Jan. 11 for \$199,000 \$1000 denom., not to exceed 6% negotiable open coupon notes, First Series, 1927.

Fla., Tampa—Road, Bridge—Hillsborough County Commrs., W. A. Dickenson, Clk., receives bids Jan. 20 for \$80,000 6% \$1000 denom. Palm River Special Road and Bridge Dist. bonds. Lately noted rejected bids for bonds.

Ga., Fitzgerald—Street—City, J. H. Mayes, Mayor, plans issuing State baby bonds for street paving, sidewalks, etc., at expense of property so improved.

Ga., Thomasville—School Erection and Equipment—City votes Jan 3 on \$85,000. Address City Clk.

Ky., Vanceburg—Highway—Lewis County votes Jan. 20 on \$200,000 bonds. Address County Commrs.

La., Benton—School—Bossier Parish School Board, R. V. Kerr, Sec., receives bids Jan. 5 for \$80,000 Consolidated School Dist. No. 1 bonds.

La., Delano—School—Delano Joint Union Highway School Dist. votes Jan. 17 on \$75,000 bonds. Address Board of Trustees.

La., Jonesboro—Public Improvement—City, L. E. Poole, Clk., receives bids Jan. 10 for \$40,000 6%, \$1000 denom bonds.

La., Mangham—Public Improvements—Village, W. Sim Sayer, Mayor, receives bids Jan. 11 for \$40,000 6%, \$1000 denom bonds.

La., Monroe—Protection Highway—Ouachita Parish voted \$150,000 bonds. Address Parish Police Jury.

La., New Iberia—Public Improvement—Iberia Parish Police Jury, Clet Girard, Pres., receives bids Jan. 9 for \$150,000 5%, \$1000 denom bonds.

La., Oakdale—Public Improvement—Mayor and Board of Aldermen receive bids Jan. 3 for \$80,000 5½% bonds.

La., Oakdale—Public Improvements—City, D. C. Green, Sec. (Clk.), receives bids Jan. 3 for \$80,000 5½%, \$1000 denom. bonds; E. L. Eldred, Mayor.

La., Shreveport—School—Caddo Parish School Board, E. W. Jones, Supt., receives bids Jan. 11 for \$30,000 Dist. No. 11 bonds.

Miss., Belzoni—Refunding—Humphreys Co. Board of Supvrs., A. R. Hutches, Clk., receives bids Jan. 2 for \$98,000 bonds.

Miss., Brookhaven—Jail—Lincoln County Board of Supvrs. may issue \$45,000 bonds early in Feb., 1928.

Miss., Columbia—City Hall—City, W. J. Hetzler, Mayor, votes Jan. 2 on \$200,000 bonds.

Miss., Columbus—City, C. M. Reeves, Sec. Treas., receives bids Jan. 3 for \$36,500 not to exceed 5% municipal bonds to purchase right-of-way and depot site for St. Louis-San Francisco Ry. Co.

Miss., Iuka—Sewer—City voted \$25,000 bonds; Polglaze & Basenberg, County Engr.

Miss., Gulfport—City, W. W. Swift, Clk., receives bids Jan. 3 for \$29,500 6% bonds.

Miss., Lexington—School—City voted \$60,000 bonds. Address City Clk.

Mo., Cuba—Water Works—City votes soon on \$32,500 bonds; W. S. Merkle, Consult. Engr., 414 N. Twelfth Blvd., St. Louis.

Mo., Dixon—Water Works—City votes soon on \$45,000 bonds; W. S. Merkle, Consult. Engr., 414 N. Twelfth Blvd., St. Louis.

Mo., Independence—Municipal Fire Depart-

ment—City, Mayor Sermon, voted \$75,000 bonds.

Mo., Kansas City—School—City may vote Mar. 27, 1928, on \$5,000,000 bonds; H. F. McElroy, Mgr.

Mo., Shelbyville—Municipal Improvement—Town considering bond issue for water works, sewer and paving. Address Town Clk.

N. C., Bryson City—Highway—Swain Co. Commrs., S. R. Patterson, Clk., receive bids Jan. 2 for \$40,000, 4¼%, \$1000 denom. bonds.

N. C., Durham—Durham County Commrs., H. L. Carver, Chmn., receive bids Jan. 3 for \$226,000 4¼% \$1000 denom. bonds: \$160,000, toward funding county home debt; \$66,000, building and improving roads.

N. C., Franklin—School—Macon County Commrs., Horace J. Hurst, Clk., receive bids Jan. 2 for \$50,000 5% bonds.

S. C., Greenville—Sewer—City receives bids Jan. 10 for \$175,000 to \$200,000 Greater Greenville bonds. Address City Clk.

N. C., Lexington—School—City voted \$110,000 bonds. Address City Comm.

N. C., Morehead City—Municipal Hospital—City, reported, voted \$65,000 bonds. Address City Clk.

Okla., McAlester—School—City voted \$90,000 bonds. Address City Clk.

Okla., Mooreland—Water Works—City voted \$65,000 bonds. Address City Clk.

Okla., Oklahoma City—Municipal Improvement—City, E. M. Fry, Mgr., receives bids Jan. 5 for \$8,629,000 bonds. Lately noted bids on \$10,329,000 bonds.

Okla., Perry—School—Noble County Board of Education, J. E. Dolzal, Clk., receives bids Jan. 10 for \$47,000, \$1000 denom. Perry School Dist. bonds.

S. C., Georgetown—Highway—Georgetown County Commrs., W. A. Campbell, Clk., receives bids soon for \$12,000, \$1000 denom., 5½% coupon bonds.

Tenn., Charlotte—Highway—Dickinson Co., Joe B. Weems, County Judge, receives bids Jan. 2 for \$234,000, 5% bonds.

Tenn., Greeneville—Water Works—City, N. A. Hawkins, Recorder, votes Dec. 31 on \$110,000 6% bonds.

Tenn., Murfreesboro—Funding—City, J. E. Stockard, Recorder, receives bids Jan. 5 for \$1,000,000 5% \$1000 denom. bonds.

Tex., Beaumont—Improvement—City, Ollie J. Bloyd, Mgr., considering \$3,000,000 bond issue: \$700,000, street and sewer improvement; \$2,300,000, schools; R. C. Black, City Engr.

Tex., Center—Road—Shelby County Commrs. Court will call election in Jan. on \$200,000 Precinct No. 2 bonds.

Tex., Centerville—Road—Leon County Commrs. Court plans selling bonds. Address County Commrs.

Tex., Clarendon—Road—Donley County Commrs. considering \$1,000,000 bond issue.

Tex., Coleman—City, E. P. Scarborough, Mayor, voted \$157,000 bonds: \$75,000, street paving; \$45,000, city hall and fire station; \$37,000, refund.

Tex., Corpus Christi—Nueces County voted \$1,500,000 port bonds, and defeated \$1,500,000 road bonds; Robert Driscoll, Chmn., Nueces County Navigation Comm.

Tex., Corsicana—Road—Navarro County, Road Dist. No. 12, Warren Hicks, County Judge, voted \$30,000 5% \$1000 bonds.

Tex., Del Rio—Road—Del Verde County, W. F. Littleton, Judge, defeated \$250,000 bond issue.

Tex., Eagle Pass—Irrigation—Maverick County Water Control Dist. No. 1, Ben V. King, Judge, voted \$4,800,000 bonds.

Tex., Edinburg—Road—Hidalgo County, Road Dist. No. 5, voted \$1,000,000 bonds; H. W. Cameron, County Judge.

Tex., Edinburg—Road—Hidalgo County, McAllen Road Dist., votes Jan. 16 on \$1,000,000 bonds. Address County Commrs.

Tex., El Paso—Road—El Paso and Hudspeth Counties voted \$950,000 bonds; E. B. McClintock, El Paso County Judge; Fred Wilson, County Engr.

Tex., Marlin—Sewage Disposal Plant—City, J. M. Kennedy, Clk., receives bids Jan. 4 for \$38,000, 5% bonds.

Tex., Mercedes—School—City votes soon on \$38,000 bonds. Address City Clk.

Tex., Pecos—Hospital—Reeves County voted \$40,000 bonds. Address County Commrs.

Tex., Port Arthur—Bridge—City, J. P. Logan, Mayor, plans bond issue.

Tex., Raymondville—Road—Willacy County votes Jan. 21 on \$650,000 Road Dist. No. 3 bonds. Address County Commrs.

Tex., San Saba—City voted \$150,000 bonds: \$90,000, water works; \$60,000, sewer. Address City Clk.

Tex., Silverton—Water Works—City votes Jan. 10 on \$35,000 bonds. Address City Sec.

Tex., Sterling—City—Road—Sterling County voted \$201,000 bonds. Address County Commrs.

Va., South Norfolk, Norfolk—City, B. H. Gibson, Mayor, considering \$350,000 bond issue: \$200,000, street; \$150,000 school.

W. Va., Point Pleasant—Road—Mason County Court, John G. Aten, Clk., receives bids Dec. 31 for \$35,000 5¼% Cologne Dist. coupon bonds.

## Bond Issues Sold

Ala., Bessemer—Public Improvement—City, J. M. Scott, Clk., sold \$134,000, 6% bonds to Caldwell & Co., Nashville, Tenn., at 104.61.

Fla., DeLand—Road, Bridge—Volusia Co. Commrs., Sam D. Jordan, Clk., sold \$30,000, 6% De Leon Springs-Glenwood Special Road and Bridge Dist. coupon bonds to Brown-Crummer Co., Wichita, Kansas, at par.

Fla., Jacksonville—Street—City Comm., M. W. Bishop, Sec., sold \$335,000, 5% bonds to Detroit Trust Co., Detroit, Mich., for \$349,976, at rate of 104.47.

Fla., New Smyrna—Funding—City Comm., sold \$100,000 6% bonds to A. T. Bell & Co., Toledo, Ohio, at par.

Fla., Stuart—School—Martin County Board of Public Instruction, Edward Mapp, Supt., sold \$21,000, 6%, \$1,000 denom. Special Tax School Dist. No. 3 bonds to Stranahan, Harris & Oatis, Jacksonville and Toledo, at \$21,640, net, and accrued interest.

Ga., McRae—City purchased \$40,000 railroad and \$20,000 Georgia Power Co. bonds. Address City Clk.

Ky., Raceland—Paving—City sold \$41,000 6% bonds to T. C. Cloran, Ironton, Ohio, at par.

Ky., Louisville—Grade Crossing Eliminating—City, Mayor Harrison, sold \$500,000 bonds to E. W. Hays & Co. and Caldwell & Co., Nashville, Tenn., at premium of \$26,803.

La., Delhi—Paving—Town, S. E. Smith, Clk., sold \$65,000 4¼% bonds to Bank of Delhi at premium of \$506.

Miss., Columbia—Municipal—City sold \$50,000, 5% bonds to Capital National Bank, Jackson, at premium of \$582.50.

Miss., Vicksburg—Refund—City, S. S. Patterson, Clk., sold \$325,000 4½%, \$1,000 denom. bonds to Halsey, Stuart & Co., Chicago, Ill., at par and premium of \$2,605.

Miss., Water Valley—Road—Yalobusha County Commrs. sold \$66,000 5% Beat No. 1 bonds to Grenada Bank, Grenada, at premium of \$350.

N. C., Plymouth—School Funding—Washington County sold \$40,000 4¼%, \$500 denom. bonds to W. K. Terry & Co., Toledo, Ohio, at premium of \$140.

N. C., Walnut Cove—Municipal Improvement—Town, J. R. Voss, Clk., sold \$15,000 6%, \$1000 denom bonds to W. L. Slayton & Co., Toledo, Ohio, at premium of \$663.

Tenn., Jamestown—Road—Fentress County, H. N. Wright, County Judge, sold \$100,000, 5% bonds to I. B. Tigrett & Co., Memphis, at par, accrued interest and premium of \$4,250.

Tenn., Murfreesboro—Highway—Rutherford County Commrs., J. P. Leathers, Clk., sold \$236,000, 4¼%, \$1,000 denom. bonds to Caldwell & Co. and First National Co., both Nashville, at premium of \$5,578 and accrued interest.

Tex., Austin—Hospital—City, S. W. Mabry, Director of Finance, sold \$100,000 4¼% \$1000 denom. bonds to Kauffman, Smith & Co., Inc., St. Louis, Mo., at par, accrued interest.

Tex., Cuero—Water Works—City, LeRoy Hamilton, Mayor, sold \$32,000 5% bonds to Dallas Trust & Savings Bank, Dallas, at par, accrued interest and premium of \$301.

Tex., Edinburg—Road—Hidalgo County Commissioners Court, T. J. Kelly, Judge, sold \$3,000,000 Road Dist. No. 1 bonds to Brown-Crummer Co., Wichita, Kan., at par, accrued interest and premium of \$10,120.

Tex., Longview—School—Gregg County Commrs. Court purchased \$10,000 Longview

(Continued on page 92)



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# FINANCIAL NEWS

(Continued from page 90)

and Edinburg Independent School Dist. bonds.

Tex., Tilden — Road — McMullen County Comms. sold \$185,000 5% bonds to H. D. Crosby & Co., Gunter Bldg., San Antonio.

Tex., Troup — School — Troup Independent School Dist., A. B. Tarbutton, Pres. of Board, sold \$12,000 5% \$500 denom. bonds to Department of Education, Austin, Tex., at 100.5 and accrued interest. 12-22

Tex., Wheeler — Road — Wheeler County Comms. sold \$1,000,000, 4½% bonds to Brown Crummer & Co., Wichita, Kansas, and Caldwell & Co., Nashville, Tenn., at par. 12-15

W. Va., Morgantown—Refunding—Monongalia County Comms. sold \$66,000 5% Cass Magisterial Dist bonds to Prudden & Co., Toledo, Ohio.

## New Financial Corporations

Fla., St. Petersburg—American Mortgage Corp., chartered; Ed. C. Wright, 206 W. Woodlawn Ave., R. D. Proctor, Lula M. Wright.

Miss., DeKalb—First National Bank of DeKalb, capital \$25,000, organized; J. H. Daws, Correspondent.

Mo., Kansas City—P. & N. Investment Co., capital \$20,000, incorporated; Paul F. Donnelly, 431 Ward Parkway; Edward J. Dillan.

Mo., New Franklin—Exchange Bank of New Franklin, capital \$20,000, chartered; Robert H. Jones, Pres.; C. L. Painter, Cashier.

Okla., Muskogee—Investors Security Corp., 222 Wall St., capital \$10,000, organized; J. A. Hurt, Pres.; Bess Hurt, Sec.-Treas. 12-8

Tenn., Chattanooga—Rellance Investment Co., Chattanooga, capital \$50,000 chartered; M. P. Parker, C. E. Clift, Hamilton Bank Bldg., E. R. May, 1812 Vine St.

Tex., El Paso—El Paso Bond and Securities Co., 300 Mills St., capital \$12,500, organized; James L. Marr, Pres., 523 Prospect Ave.; M. E. DeBord, Sec.-Treas., 2825 Aetna Blvd. 12-15

Tex., Houston—Texas United States Bond & Mortgage Co., 8 E. 41st St., capital \$1,000,000, organized; subsidiary of United States Bond & Mortgage Co. of New York; L. H. Grimme, interested.

Citizens' National Bank, G. A. Holland, Pres., Courts Holland, Cashier, and Parker County National Bank, Mrs. H. W. Kuteman, Pres., W. V. Shadle, Cashier, all Weatherford,

Tex., plan consolidating as Citizens' National Bank, capital \$100,000.

Farmers National Bank, Wm. D. Carrington, Pres., F. A. Jameson, Cashier, Buda, and Austin National Bank, W. H. Foltz, Pres., C. M. Bartholomes, Vice-Pres. and Cashier, Austin, consolidated.

## Calhoun and Gordon County, Ga.

The Calhoun Civitan Club has issued an unusually attractive and interesting booklet with the title "Calhoun and Gordon County, Georgia." It is beautifully illustrated with urban, suburban and rural views gathered in that locality and the charm and richness of the country is fully presented. To industrial plants there are offered in Calhoun low taxes, cheap power, tax exemption, low building costs, cheap raw materials and sundry other advantages.

## Calendars for 1928.

Bunch & Harnesberger, Lincolnton, Ga., lumber manufacturers of the B. & H. Brand, Georgia Roofers, have sent out to their friends and customers a big wall calendar, with a reproduction in natural colors, of an original painting entitled "Once in a Lifetime," representing a fisherman in a canoe on a turbulent river and engaged in salmon fishing, having just captured one of the silvery denizens of the water, while his Indian companion is working hard to prevent an upset. Paxson-Taggart, Inc., foundry sands, facings, supplies, of Providence, Philadelphia and Baltimore, have issued a neat and practical hanger calendar, with three months to a page, all done in dark blue on white ground. The Sullivan Company, Memphis, Tenn., manufacturers of the "Sulco" products, life preservers for building and equipment, have sent out a fine and attractive calendar, with a picture of an ancient ship on the sea, a handy booklet of date sheets being just below it. The Thomas H. O'Connor Company, Inc., Baltimore, Md., dealers in waste paper and box boards, baling presses and baling wire, have issued a large and practical wall calendar in black and red on white ground, with three months to a page,

for office use. The Traylor Engineering & Manufacturing Company, Allentown, Pa., builders of crushing machinery, etc., have put out a large and finely executed wall calendar, with three months to a page, the whole being done in black and green, with pictures in brown. Illustrating the Hercules twist drills, reamers, cutters, etc., the Whitman Barnes-Detroit Corporation of Chicago, Detroit and New York, have a superior calendar in colors for office use, the picture being done in colors, and there are three months to a page. The Draper Corporation, manufacturers of textile machinery, Hopedale, Mass., have an exceedingly tasteful calendar with illustrations of some of their products; also a cotton field and a flock of sheep, all being in appropriate colors.

## The Little Devil and Its Pitchfork.

"The Little Devil" is the striking title of a small magazine devoted to firebricks, which is published monthly by the Ashland Fire Brick Company of Ashland, Ky. Two late copies are typical of the issues of an entire year, abounding as they do with valuable information of different characters concerning refractories. One of the contributions is a refractories utility chart, which will be found particularly useful. The witty caption of one of the magazine departments is "The Pitchfork," a very appropriate heading for almost anything relating to a devil.

## High-Speed Electric Hoists.

The American Hoist and Derrick Company recently issued a new booklet that is of exceptional interest to everyone using hoists for steel erection, concrete tower work or general contractors' use. This booklet brings out the reasons why the American high-speed electric hoists are especially adapted to the various jobs, and in addition many advantages are treated in detail. A copy of the booklet will be sent anyone upon request to the American Hoist and Derrick Company, 63 South Robert street, St. Paul, Minn.

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16



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## Some Texas Suggestions About Cotton and How to Increase Its Consumption.

By B. M. WHITEKER, Exhibit-Agricultural Manager, West Texas Chamber of Commerce.

Shall Congress by legislation help a class of farmers when, it appears, they will not help themselves? In all probability the McNary-Haugen Farm Relief bill, or one similar, will be on the calendar and much time and money will be wasted in efforts to decide which plan, way or means will meet the demands of the agricultural interests.

At the last session Congress passed the McNary-Haugen Farm Relief bill and President Coolidge promptly vetoed it. This bill provided that six farm commodities—cotton, wheat and four others—should be taxed, so much on a bale of cotton, or so much on a bushel of wheat, and so forth, so as to create a purchasing fund to buy surplus of either or all when such an overproduction should depress the price below production costs in any year.

Just where the low limit of the price of cotton would be is a question. In some of the Eastern States it is estimated that the production cost is 30 to 40 cents per pound for lint cotton, while in Texas, Oklahoma and New Mexico the cost is estimated at 20 to 25 cents per pound, and in Texas about 35 per cent of the total crop of America is grown. West Texas is producing 40 per cent of this crop of the State, and that at from 10 to 15 cents per pound, lint cotton.

The question is: Must Texas, Oklahoma and New Mexico cotton producers be compelled to hold cotton when they have produced approximately 50 per cent of the American crop at a reasonable profit, while many another State's cotton farmers are not getting production cost?

The McNary-Haugen bill, or any other similar bill, would require tremendous cost to the producers of these farm commodities listed in the bill, as purchasing and selling agencies, with salaries or commissions, must be borne by the producer, and also insurance, storage and handling charges must be taken into consideration, all of which adds to the cost of production and becomes an added burden to the producer, especially to the cotton producer.

If Congress has the power to pass an act or levy a tax on a farm commodity, such as cotton; to buy and hold off the market a certain per cent in order to raise or hold the price to a certain level, it seems that Congress would have the same power to pass an act or law to require the producer of that crop, such as cotton, to consume more of that commodity.

The cotton farmers of America in the last three years have paid out some \$75,000,000 for a foreign-grown and manufactured commodity (as jute from India) to wrap the American cotton crop, and during the same time the wool and mohair producers of America have probably purchased some \$25,000,000 worth of jute bagging in which to sack their wool and mohair. During that identical period cheaper grades of American cotton, suitable for this bagging usage, were dragging down the cotton market for want of demand.

To wrap last year's cotton crop cost the cotton farmers of America \$25,000,000 and probably every bale, except round bales, was wrapped in jute from India. These cotton farmers paid at the gin from 12 to 12½ cents per pound, or \$1.50 per pattern of 12 pounds, and sold the grade of cotton that would have made this bagging at 6 and 8 cents per pound during the late gathering season.

If Congress could pass an act requiring all gins to use cotton bagging, this would create at once a new and permanent demand from 350,000 to 500,000 bales of cotton of that low grade that depresses the market most when large carry-

over is necessary. At the same time this act would give an added industry to the American cotton mills and supply increased labor demands, as well as leaving more money in the pockets of the cotton producers, and coincidentally increasing the price of cotton from \$10 to \$20 a bale for every bale produced annually, or \$160,000,000 to \$320,000,000 for last year's crop.

To levy a tax on last year's cotton crop to hold off 500,000 bales of surplus produce from the market would have required \$30,000,000 at 12 cents per pound, and to this amount would have to be added two or three millions more to employ purchasing and selling agencies, insurance, storage, handling charges, while at the same time not an extra bale would have been consumed. On the other hand, a new demand for 400,000 or 500,000 bales of cotton is a material increase in the yearly consumption of cotton and certainly has a material benefit to the cotton growers of the United States.

If agricultural experts and law-making bodies, joined by agricultural producers, especially cotton growers, would give more consideration to the inevitable law of supply and demand rather than to theoretical problems when overproduction occurs, and study practical questions of increased demand of agricultural products, it would be materially benefiting to the cotton industry, as well as to other agricultural industries of America.

## New Line From Baltimore to Central and South American Ports.

G. H. Pouder, director of the Export and Import Bureau of the Baltimore Association of Commerce, announces that the Peruvian Steamship Company, New York, will inaugurate monthly sailings from the port of Baltimore in February. This will afford local shippers an outlet for their products to Central American and South American west coast points, including the Panama Canal zone and ports in Peru, Ecuador and Colombia. Freight for Central American ports will be transshipped from ports in the Canal zone. The new line, it is announced, is designed to carry freight primarily, although it may carry a few passengers from time to time. About four ships will be employed in the service, each of approximately 6000 tons dead weight. The Cottman Company, Baltimore, will act as local agents.

## Florida Field First Airport Entry in United States.

Washington, D. C.—Meachen Field, operated by the Pan-American Airways, Inc., at Key West, Fla., has been designated by Secretary Mellon of the United States Treasury Department, as the first airport of entry to be established in the United States. In the opinion of Treasury officials, the rapid growth of commercial aviation has made it desirable to establish such ports, where customs regulations may be carried through without great inconvenience to fliers, and it is understood that they favor the establishment of other such ports.

## \$1,234,173,000 Expended for 64,209 Miles Federal-Aid Roads.

Washington, D. C.—A report presented to Congress by the Bureau of Public Roads states that a total of 64,209 miles of Federal-aid roads have been built in the United States since the Government's Federal-aid program was inaugurated in 1916. The cost of roads so far constructed has been \$1,234,173,187, according to the report, of which the Government has paid \$544,884,911 and the States the remainder. The entire Federal-aid program will comprise a system of 185,772 miles of highways.





# PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close January 13, 1928.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., December 23, 1927.—SEALED BIDS will be opened in this office at 3 P. M. January 13, 1928, for constructing a roof over the west mailing platform and skylights over the west vestibule at the United States Postoffice and Courthouse, San Antonio, Texas. Drawings and specifications may be obtained from the custodian of the building or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Bids close January 10, 1928.

## \$650,000 6% Bonds

### FORT PIERCE INLET DISTRICT

Fort Pierce, Fla.

Sealed bids will be opened at 2 o'clock P. M. on January 10, 1928, for 650 \$1000 coupon bonds of Fort Pierce Inlet District, bearing six per cent semi-annual interest. Bonds mature serially from 1929 to 1958. Approving opinion by Thomson, Wood & Hoffman of New York City.

Write to E. L. Price, Chairman, Fort Pierce, Florida, for circular containing full information.

Bids close January 9, 1928.

## \$143,000 Refunding Bonds

Mobile, Ala.

The Board of Revenue and Road Commissioners of Mobile County, Alabama, respectfully calls for sealed bids for \$143,000 in 4% or 4½% Refunding Bonds, to be issued March 1, 1928, and retired serially. Bids will be opened at 10.30 A. M. January 9, 1928, at the Board's office in the Courthouse, Mobile, Alabama. For further particulars address Geo. E. Stone, Treasurer of Mobile County, Mobile, Alabama.

A. D. DAVIS,  
Chairman, Board of Revenue and Road  
Commissioners of Mobile County, Ala.

Bids close January 3, 1928.

## Concrete Arch Bridge

Danville, Va.

Sealed proposals for the construction of Plan "A" and Plan "B" concrete arch bridge at Worsham Street, Danville, Virginia, across the Dan River, about 1225 feet long, will be received by the City Council at the Council Chamber, Danville, Virginia, until 8 o'clock P. M. January 3, 1928, and at that time and place will be publicly opened and read.

Each bid will be enclosed in a sealed envelope, accompanied by a certified check on a local bank in the sum of \$5000, made payable to the City of Danville as good faith in proposals submitted.

If proposals are presented on both plans of bridges, the two proposals can be submitted in one sealed envelope and the same accompanied by one certified check in the sum of \$5000.

Plans and specifications may be examined at the office of the City Engineer, Danville, Virginia, after December 10, 1927, and copies of plans and specifications may be had from the City Engineer after this date for the sum of \$25, which amount will be returned when the plans and specifications are returned to the City Engineer intact, provided they are not retained more than three months.

Each bidder will file with his proposal answers to the questions relating to qualifications and a financial statement for 1927.

The right is reserved by the City Council to reject any and all proposals.

C. L. SCOTT, JR.,  
City Engineer.

RATE: 35 cents per line per insertion  
PUBLICATION DAY: Thursday.

FORMS CLOSE: 4 P. M. Monday.

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THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

Bids close January 3, 1928.

WAR DEPARTMENT, United States Engineer Office, Montgomery, Alabama, December 1, 1927. SEALED BIDS, in triplicate, will be received until 12 noon, Central time, January 3, 1928, and then publicly opened, for furnishing all labor and materials and performing all work for constructing and delivering two 80-foot creosoted wooden decked barges. Further information on application.

Bids close January 2, 1928.

## \$7000 Drainage Bonds

Greenwood, Miss.

Sealed bids for the sale of the bonds of The Pelucia Swamp Land District of Carroll County, Mississippi, in the amount of seven thousand dollars, will be received by the Board of Supervisors of said county on the first Monday of January, A. D. 1928, at the Courthouse at 12 o'clock M.

Certified check for \$200 required. For particulars address E. L. and H. C. Mounger, Greenwood, Miss.

J. T. ALLEN, Clerk.

Bids close January 17, 1928.

## Virginia Highway Work

Richmond, Va.

The Commission will receive bids on:

Proj.	Length	Type
S523A	1.9 Mi.	Concrete.
S406D		Br. over Wolf Cr., Steel and Concrete.
F259B2		Br. over Staunton River; Steel and Concrete.
S393B4		Br. over Ogle Cr.; Steel.

Details obtainable on request.

Bids close January 5, 1928.

## Re-advertisement for Proposals for Drainage Work

Bids will be received by the Board of Drainage Commissioners of Cumberland County Drainage District No. 3 (Sandy Creek) at the offices of Oates & Herring, Attorneys, Fayetteville, N. C., until 2 o'clock P. M. January 5, 1928, for the construction of a Drainage System comprising approximately 173,000 cubic yards of excavation of open canals and the work and structures incidental thereto, to be completed in one year from the letting of the contract.

Plans and specifications are on file with the Clerk of the Superior Court of Cumberland County, N. C., or may be seen at the offices of the aforesaid attorneys or at the office of F. F. Wetmore, Engineer, Lumberton, N. C.

E. H. BULLARD, Chairman,  
Fayetteville, N. C.

Bids close January 18, 1928.

## Road and Bridge Construction

STATE OF TENNESSEE

DEPARTMENT OF HIGHWAYS AND

PUBLIC WORKS

Nashville, Tenn.

Sealed bids will be received by the State of Tennessee, Department of Highways and Public Works, at their offices in the Memorial Building, Nashville, Tenn., until 10 A. M. Wednesday, January 18, 1928, and opened publicly at that hour, for the construction of the following road and bridge projects:

Special Bridge Project No. 4, Decatur and Perry Counties—Construction of a concrete bent and steel bridge on 0.764 mile of State Highway No. 23 over the Tennessee River at Perryville.

Project No. 51-A and B, Carroll County—Construction of pavement on 19.536 miles of State Highway No. 1, between the Madison County line and Huntingdon. The grading and draining has been completed under a former contract. Bids will be received separately and as a combination with Project No. 51-C and D.

Project No. 51-C and D, Madison County—Construction of pavement on 14.664 miles of State Highway No. 1, between Jackson and the Carroll County line. The grading and draining has been completed under a former contract. Bids will be received separately and as a combination with Project No. 51-A and B.

Project No. 78-B, Hamilton County—Construction of a pavement on 6.706 miles of State Highway No. 2, between Silverdale and the Bradley County line. The grading and draining has been completed under a former contract. Bids will be received separately and as a combination with Project No. 339-C and D.

Project No. 339-C and D, Hamilton County—Construction of pavement on 6.643 miles of State Highway No. 2, between South Chickamauga Creek and Silverdale. The grading and draining has been completed under a former contract. Bids will be received separately and as a combination with Project No. 78-B.

Project No. 121-D, Humphreys County—The construction of two concrete and steel bridges on 0.068 mile of State Highway No. 1 over Trace Creek near Denver.

Project No. 131-B, Washington and Carter Counties—Grading and draining 3.373 miles of State Highway, between Johnson City and State Highway No. 67, near Watauga. Two bridges over 20-foot span will be included with the roadway contract.

Project No. 375-A, Montgomery County—The construction of a concrete and steel bridge on 0.063 mile of State Highway No. 12 over the Red River near Clarksville.

On all paving projects alternate bids will be received for State-furnished Portland cement.

Bidder's bond, on the form furnished with the proposal, from a surety acceptable to this Department or certified check, made payable to this Department, in the amount of not less than five per cent of the total bid, must accompany bid as evidence of good faith and as guarantee that if awarded contract the bidder will execute contract and give bond as required.

Plans will be furnished at cost, with no refund. Deposit of \$1.00 is required for each copy of specifications, with no refund. Proposals are furnished free of charge. Special attention is called to the special provisions in the proposal which refer to changes in the standard specifications. For further information communicate with the Department offices at Nashville. The right to reject any or all bids is reserved.

ABOVE CONSTRUCTION IS TO BE DONE UNDER REVISED SPECIFICATIONS ADOPTED OCTOBER 1, 1927.

C. N. BASS,  
Commissioner.

Bids close January 10, 1928.

### Road and Bridge Construction

OFFICE OF THE STATE ROAD  
DEPARTMENT

Tallahassee, Fla., December 7, 1927.

Sealed bids will be received at the above office until 10 A. M. on the 10th day of January, 1928, for the construction of the following projects:

F. A. Project No. 61-A—Road No. 1, Gadsden County, Quincy west, approximately 10.0 miles.

F. A. Project No. 61-C—Road No. 1, Gadsden County, River Junction east, 9.77 miles. Work on Projects 61-A and C to consist of constructing a Plain Cement Concrete Surface.

Project No. 677-D—Road No. 13, Levy County, from the Chiefland Road to Cedar Key, approximately 8.91 miles.

Project No. 695—Road No. 2, Lake County, from Silver Lake Forks toward Lisbon, approximately 3.0 miles.

Work on Projects No. 677-D and 695 to consist of constructing a Surface Treated Florida Broken Stone Base No. 2.

On the following designated Projects the work is to consist of Clearing, Grubbing, Grading and Constructing the necessary small Drainage Structures:

F. A. Project No. 62-A—Road No. 24, Osceola County, from Kissimmee to St. Cloud, 12.52 miles in length.

F. A. Project No. 62-C—Road No. 24, Osceola County, from St. Cloud to Holopaw, approximately 11.83 miles in length.

F. A. Project No. 62-D—Road No. 24, Osceola County, from Holopaw to the Brevard County line, approximately 12.62 miles in length.

Project No. 709—Road No. 39, Holmes County, from Alabama State line south, 9.09 miles.

Project No. 710-A—Road No. 17, Hillsboro County, from the Thonotosassa Road west, 6.18 miles.

Project No. 710-C—Road No. 17, Hillsboro County, from Project 710-A to Tampa, approximately 12.69 miles in length.

Project No. 732—Road No. 17, Polk County, from Lakeland to Auburndale, approximately 8.94 miles in length.

Project No. 736—Road No. 39, Holmes County, from the Washington County line north, 8.58 miles.

Project No. 735—Road No. 17, Polk County, from Auburndale to Haines City, approximately 11.22 miles in length.

Project No. 757—Road No. 2, Polk County, from Bartow to Ft. Meade, approximately 10.26 miles in length.

Project No. 758—Road No. 2, Polk County, from Ft. Meade to Hardee County line, approximately 8.34 miles in length.

Project No. 683-A—Road No. 4, Palm Beach County, from West Palm Beach to Delray, approximately 12.9 miles in length.

F. A. Project No. 55-B—Road No. 14, Alachua County, consisting of two concrete bridges and one concrete overhead crossing. The combined length of bridges is 263 feet. The length of overpass is 196 feet.

Project No. 677-D—Road No. 13, Levy County, being four Standard Creosoted Timber Bridges, the combined length of which is 1335 feet.

Project No. 764-B—Road No. 50, Suwannee County, being a concrete overhead crossing approximately 113 feet in length.

Project No. 710-B—Road No. 17, Hillsboro County, between Plant City and Tampa, consisting of six (6) Concrete Bridges totaling 208 feet in length.

All work to be done in accordance with plans and specifications of the State Road Department.

A certified check, made payable to the Chairman of the State Road Department, in the sum of five per cent (5%) of the amount bid must accompany each proposal.

Plans may be examined at this office, at the office of the Division Engineer, and may be obtained upon application to this office for the sum of \$5.00 for each set of plans.

The right is reserved to reject any or all bids.

F. A. HATHAWAY,  
Chairman.

J. L. CRESAP,  
State Highway Engineer.

Bids close January 18, 1928.

### Water-Works Improvements

Hickory, N. C.

Sealed proposals will be received by the Mayor and Board of Aldermen of the City of Hickory, N. C., until 11 A. M. January 18, 1928, for Water Works Improvements enumerated as follows:

Furnishing and delivering, F. O. B. Cars Hickory, N. C., or designated sidings:

Two (2) Motor-driven Centrifugal Pumping Units, complete.

One (1) Gasoline-Engine-driven Centrifugal Pumping Unit, complete.

Furnishing labor, material, etc., for and laying approximately two (2) miles of sixteen (16) inch cast-iron water pipe.

Furnishing labor, materials, etc., for and constructing raw-water pumping station and intake.

Proposals must be marked "PROPOSALS FOR WATER-WORKS IMPROVEMENTS FOR THE CITY OF HICKORY, N. C."

Each bid must be accompanied by a certified check in the amount of five (5%) per cent of the amount of the bid, but in no case for less than Two Hundred Fifty (\$250) Dollars, as evidence of good faith. Bid bonds will not be accepted in lieu of certified checks.

Copies of the Specifications, Form of Proposal, Contract, etc., may be obtained upon application to the Engineers.

The right is reserved to reject any or all bids or to award contracts which, in the opinion of the Mayor and Board of Aldermen and the Engineers, appear to be for the best interests of the city.

Bidders must show evidence that they have complied with the "Act to Regulate the Practice of General Contracting as Ratified by the General Assembly of North Carolina, March 10, 1925."

WILLIAM C. OLSEN, INC.,  
Engineers, Raleigh, N. C.

J. D. ELLIOTT, Mayor.

H. L. YODER, City Manager.

L. A. WHITENER, Supt. of Public Works.

Bids close January 5, 1928.

### Sanitary Sewerage System

DeQuincy, La.

Sealed proposals will be received by the Board of Sewerage Commissioners of Sewerage District No. 1 of DeQuincy, Louisiana, for furnishing all labor, materials and equipment and constructing a Sanitary Sewerage System, as per plans of Engineers, in and for the Sewerage District No. 1, Town of DeQuincy, Louisiana, until 7 o'clock P. M. January 5, 1928, at which time they will be opened and read publicly.

The principal items of work are approximately as follows:

- 44,105 Feet 8-inch Sewer Pipe.
- 2,315 Feet 10-inch Sewer Pipe.
- 5,630 Feet 12-inch Sewer Pipe.
- 10,125 Feet 15-inch Sewer Pipe.
- 320 Feet 18-inch Sewer Pipe.
- 196 Manholes, complete.
- 690 Feet 12-inch Soil Pipe.
- 280 Feet 10-inch Soil Pipe.
- 400 Feet 8-inch Soil Pipe.
- 11 12x8 Soil Pipe Tees.
- 4 10x8 Soil Pipe Tees.
- 12 8x8 Soil Pipe Tees.
- 108 Feet 24-inch Cast-Iron Pipe.
- 288 Feet 20-inch Cast-Iron Pipe.
- 12 Feet 18-inch Cast-Iron Pipe.
- 264 Feet 16-inch Cast-Iron Pipe.
- 252 Feet 12-inch Cast-Iron Pipe.
- 60 Feet 10-inch Cast-Iron Pipe.
- 204 Feet 8-inch Cast-Iron Pipe.
- 15,000 cu. yds. Gravel Surfacing; take up and relay.
- 1 Septic Tank.
- 2 Sludge Beds.

Accessories to Sewerage System. Bids must be accompanied by a certified or cashier's check on a bank satisfactory to the Commissioners for FOUR THOUSAND (\$4000) DOLLARS, drawn to the order of the Board of Sewerage Commissioners of Sewerage District No. One (1), DeQuincy, Louisiana, without restrictive endorsements, which will be forfeited in event the said Commissioners accept bid and bidder fails to execute contract and surety bond within ten days after said acceptance. Checks of unsuccessful bidders will be returned to bidders.

All bids will be compared on the basis of the Engineer's estimate of the amount of work to be done. Copies of specifications

may be obtained from the Engineers or Secretary of the said Board of Commissioners upon receipt of \$5.00 deposit, which amount will be returned to bona fide bidders.

Plans may be seen at the office of the Engineers or the office of the Secretary of the said Board of Commissioners, or a set will be furnished by the Engineers upon payment of \$15, which amount will NOT be returned.

The right is reserved to reject any or all bids, or to award contract to any bidder or bidders in part or as a whole, as considered to the best interest of the District.

BOARD OF SEWERAGE COMMISSIONERS,  
SEWERAGE DISTRICT NO. 1,  
DEQUINCY, LOUISIANA.

By H. L. SMITH, President.  
M. M. SMITH, Secretary.  
J. B. MCCRARY ENGINEERING  
CORP., Engineers,  
Atlanta, Georgia.

Bids close January 24, 1928.

### Sewer System

Irvine, Ky.

Sealed bids will be received by the undersigned on January 24, 1928, till 7 P. M. for construction of Sanitary Sewer System, City of Irvine, Ky., approximating 90,000 feet. Tax of \$1.00 per foot against abutting property, ten-year bond plan; remaining cost by city available.

JOHN A. WALLACE, Mayor.

Further particulars write  
J. R. WHITE, Clerk.

Bids close January 2, 1928.

### Electric Pump Control and Repairs

Plant City, Fla., December 12, 1927.

Sealed proposals will be received until 8 P. M. January 2, 1928, by the Board of City Commissioners of Plant City, Fla., for the installation of an automatic electric-control system on the 600-gal. pump now in use at the City Water Works, also for the overhauling and repairing of the above pump.

A certified check in the amount of 25 per cent of the bid must accompany each proposal.

Plans and specifications on file at the office of the City Manager, Plant City, Fla.

By order of the City Commissioners of Plant City, Fla.

E. H. THOMPSON,  
City Manager.

Bids close January 4, 1928.

### Furniture, Cafeteria and Laboratory Equipment

DEPARTMENT OF EDUCATION  
OFFICE OF THE  
BOARD OF SCHOOL COMMISSIONERS  
MADISON AND LAFAYETTE AVENUES  
Baltimore, December 21, 1927.

SEPARATE SEALED PROPOSALS, in duplicate, addressed to the Board of Awards of Baltimore City, will be received at the office of the City Register, City Hall, Baltimore, Md., until 11 o'clock A. M. Wednesday, January 4, 1928, endorsed as follows:

Proposals for Furniture and Equipment for the Department of Education.

Proposals for Furnishing Cafeteria Equipment for the Department of Education.

Proposals for Furnishing and installing Laboratory Equipment and Furniture for the Department of Education.

Specifications for the above may be obtained at the office of the Director of Business Management, Madison and Lafayette avenues, Baltimore, Md.

Each bid for Furniture and Equipment must be accompanied by a certified check of the bidder for \$50 and each bid for Cafeteria Equipment and Laboratory Equipment and Furniture must be accompanied by a certified check of the bidder for \$100, made payable to the Mayor and City Council of Baltimore, and drawn on a clearing-house bank.

The successful bidder will be required to give bond for the faithful performance of his contract, and in an amount equal to the contract price, and to comply with the City Charter respecting contracts.

The Board of Awards reserves the right to reject any or all bids.

JOSHUA R. JOLLY,  
Acting Secretary Board of  
School Commissioners.

Approved December 21, 1927.  
WILLIAM F. BROENING,  
President Board of Awards.





# CLASSIFIED OPPORTUNITIES



## MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

### MINERAL PROPERTIES

Kaolin, feldspar, mica, asbestos, cynite, corundum, garnet, gold and other metallic minerals. If interested in the above minerals write me.

W. B. McGUIRE, Franklin, N. C.

**REAL ESTATE INVESTORS**—400,000-acre ranch, Texas Panhandle, with over 20,000 cattle, good improvements, lots cultivated; bargain. Also finest Texas winter garden colonizing tracts, also Gulf Coast townsite propositions in the Rio Grande Valley and orchards, oranges and grapefruit, also Dallas income and factory sites.

R. J. Thomas, 626 Kirby Bldg., Dallas, Tex.

### DEL FUEGO CLAY IS PRACTICALLY A GULF COAST MONOPOLY. FOR SALE AT \$50,000

Tested 40 feet deep; burns deep RED and Pink. Analyzes like St. Louis and Kansas City Clays. Is evidently restricted Miss. River deposit. Has near a mile frontage on L. & N. R. R., between two Tidewater Bayous and close contact with Gulf Coast Highways; 13 miles from New Orleans, 10 miles from Bay St. Louis, Miss. PURE ARTESIAN WATER. HEALTHY TOWNSITE. 37 years Owner, Box 24, Warrior, Ala.

### TIMBER AND TIMBER LAND

**FOR SALE**—Hardwood timber in tracts of 2000, 4000, 6000, 26,000, 50,000 acres. Each finest grades forked leaf white oak, red oak, ash and hickory. Mill sites, Investments, Bargains. Geo. M. Brasfield, Trenton, Tenn.

**FOR SALE**—Large body of pine timber land on Pacific slope in Mexico; reported will cut 700,000,000 merchantable pine, high in turpentine. Write, with references, to L. WUESTE, P. O. Box 183, Eagle Pass, Texas, for price, full report and terms.

**WHITE CEDAR (JUNIPER)**—3 million feet excellent timber, especially suitable for telephone poles and boat lumber; yellow pine, 2 million feet; also cypress and hardwoods; all virgin timber. Liberty County, Florida. Only important body of white cedar now left in Florida.

E. SUSKIND, Jacksonville, Fla.

### TIMBER CRUISER

**TIMBERLAND CRUISING** and values given anywhere. Also operating plans furnished. Advice as to yearly growth in value of young timber. Many years' practical experience.

W. J. McGOVERN, Timber Cruiser, Clearfield, Pa.

### TIMBER OPERATION

**REAL BARGAIN CAN BE HAD IN THIS** 40 to 50 Million feet pine and Cypress Timber, New Band Mill, Tram and Locomotives and all other Equipment required to operate Sawmill. Plant is less than year old and can be sawing lumber in five days. For sale at Half Price to close partnership. OTHER TIMBER TRACTS AND LARGE TRACTS OF CUTOVER SOUTHERN LANDS.

F. L. GIBSON, Thomasville, Georgia.

## FARM, FRUIT AND TRUCK LANDS

### FLORIDA

**ORANGE GROVES IN ORANGE COUNTY, FLORIDA**, the center of the Citrus Industry. We have several excellent groves and can furnish grove care by an organization of sixteen years' experience.

REX-McGILL INVESTMENT CO., Box 293 Orlando, Florida.

## RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

## FARM, FRUIT AND TRUCK LANDS

### FLORIDA

**IN GROVELAND, Florida**, five-room house, garage, 2 chicken houses, house wired for electric lights, worth \$3000, will sell for \$1500; \$1000 down or trade for business property in good-size town; also 20 acres, located 1/2 mile from Mascotte on Dixie Highway, 2-car garage, chicken house, road and lake front, lake connected with 5 other lakes, good for fishing, tourist camp; also oil station, price \$4500. Reason for selling going into furniture business. (If driving inquire Gus, garage.) F. L. ANDERSON, Box 72, Groveland, Fla.

### "FLORIDA BOUND."

If you enjoy Life, you'll love FLORIDA; "everybody" is going to FLORIDA this season—some for its Superb Climate, others to make safe and solid investments now, while it's still "bargain time," and return later to live; others to buy an inexpensive little home, Poultry Ranch, Truck Farm or Grove and "take life easy." We can "fit you up." Send today for booklet and list. TAMPA-WEST COAST REALTY CO. (INC.), Realtors, Opp. P. O. "Since Before the War," Tampa, Florida.

### LOUISIANA

**RIVER PLANTATION**—2000 acres, small oil well in center of tract, 40 mules, 40 cabins, 3 residences, tractors, implements, model road, big store, \$50 per acre; good terms. W. A. STEPHENS, Realtor, Post-office Box 555, Shreveport, La.

### NORTH CAROLINA

If interested **FOR HOME OR FOR INVESTMENT** In the great and rapidly developing STATE OF NORTH CAROLINA, especially in its leading city, Charlotte, or in a Southern Cotton Mill or Southern Mill Stocks, write to

F. C. ABBOTT & CO., Realtors and Investment Bankers Nearly thirty years in Charlotte.

### TEXAS

#### FOR SALE

2000 acres tillable land in artesian belt, 11 miles south of Pearsall; bargain for quick sale. W. J. LYTLE, 518 Texas Theater Building, San Antonio, Texas.

### "TEXAS 'WINTER GARDEN' LANDS."

A subdivision in 20-40 acre tracts, cleared and irrigated; suitable for Citrus Fruits, Winter Vegetables, Staple Crops. Reasonable prices. INVESTIGATE our proposition TODAY.

BERMUDA LANDS COMPANY, Realtors, 501-4 Houston Building, San Antonio, Texas.

## BUSINESS OPPORTUNITIES

**WRITE TO L. WUESTE**, P. O. Box 183, Eagle Pass, Texas, for information on the biggest gravity irrigation project in the State; unusual possibilities.

**FOR SALE**—Half or whole interest in a well-equipped sand and gravel proposition, Philadelphia Road at the city limits, Baltimore, Md.; 32 acres, with abundance of as good material as there is in the State, with lake supplying abundance of water. Railroad running through property.

H. L. THOMAS, 1821 Eutaw Place, Baltimore, Md.

**WASHINGTON RESIDENT**, former high Government official, wants connections with manufacturing or business concerns desiring Government business or having business before Government departments. Information in regard to pending legislation on any subject. Terms consistent with services rendered. No. 6836, care Manufacturers Record.

**PATENTED GATE OPENING DEVICE**—Want to get in touch with manufacturer to assist us in manufacturing and distributing on a profit-sharing or royalty basis. Material required could be salvaged from waste of other products; no costly machinery necessary. Alabama Trading Corp., P. O. Box 1583, Mobile, Ala.

## HOTEL FOR SALE

### HOTEL IN FLORIDA

Small hotel, with big future, for sale in the high ridge lake section of Northern Florida. All-year demand. Winter resort for Northern people and summer resort for Floridians. This is a bona fide going proposition in one of Florida's most favored and strategic spots. Thorough investigation invited. References as to character, ability and responsibility required. Address

J. E. LARSON, Keystone Heights, Fla.

## CITY AND SUBURBAN PROPERTY

### DESIRABLE FLORIDA PROPERTY

**For Quick Sale—at Reasonable Price** famous Ormond-Daytona Beach, running back 2900 feet to the Halifax River, located two miles north of the Ormond Beach Hotel (owned and operated by the Florida East Coast Railroad) and the winter residence of Mr. John D. Rockefeller. For quick sale I offer a portion of this land for cash at a price way below its present value.

It is an ideal location for a large private estate or for a high-class residential development.

For particulars please address  
WALTER L. THURSTON,  
P. O. Box 1, Ormond Beach, Florida.

## BUSINESS AND INVESTMENT PROPERTIES

### JACKSONVILLE (FLORIDA) INCOME PROPERTY

Concrete building, 52 1/2 x 105 feet, near new million-dollar Hotel George Washington on Adams Street, Jacksonville, Florida; land worth \$105,000; building \$40,000; leased to responsible party for \$8400 per year. Will sacrifice for cost price of \$100,000. Address Owner, P. O. Box 377, Jacksonville, Florida.

## COLLECTION

WE COLLECT Accounts, Notes, Claims anywhere in U. S. and Canada. No charges unless collected. Es. 25 years; bank ref. May's Collection Agency, Somerset, Ky.

## INDUSTRIES WANTED

WARREN, ARKANSAS, population ten thousand, paved streets, electric lights; growing fast. Climate and health exceptionally good, abundance of labor, two railroads, high-power electrical lines and within ten miles of natural gas main. Daily lumber production 500,000 feet, with other industries, splendid cotton-oll mills, good schools, fine churches and fine people. Warren has an unlimited amount of raw material for manufacturing furniture, cotton and other allied industries. Taxes are low and desirable trackage sites, as well as industrial sites, could be furnished to reputable people. Two excellent banks and office buildings comparable with the best in the state. We invite correspondence and investigation. Address Chamber of Commerce, Warren, Arkansas.

HOUSTON, TEXAS, the magic city of the South, where seventeen railroads meet the sea. Steamers to and from all parts of the world sail from our Great Port.

We wish cotton mills.

Wonderful climate, cheap labor, unsurpassed location for mill, twelve miles city limits, on Main Concrete Highway Main line railway, to be double tracked soon; natural gas line through tract, high-power electric line across it. Owner will sell mill site of 400 acres for \$100,000; \$25,000 cash, \$25,000 stock in mill, balance one to ten years at six per cent interest. Adjoining property recently sold for \$333 per acre cash. Investigation requested.

GOHLMAN, LESTER & CO., INC.,  
Cotton Factors,  
Houston, Texas.

## FACTORY SITES

FOR SALE—360 acres, situated 8 miles from business center of Atlanta; about 3000 feet railroad frontage; suitable for large industries and their village sites. Taxes are exempt for 5 years on new industrial plants. CRAIG COFIELD, Oakland, Florida.

SAN ANTONIO, TEXAS—For Sale, excellent piece of trackage warehouse property, 225 ft. on M. K. & T. tracks, 200 feet deep, near depot. Consideration \$15,000. Diekmann Construction Co., 306 E. Commerce street, San Antonio, Texas.

TAMPA, FLORIDA—the logical distributing point. HARRIS TERMINALS—fully equipped with railroad tracks on both the Seaboard and Atlantic Coast Line railroads. We solicit your inquiries for WAREHOUSE and FACTORY sites. Prices and terms reasonable. HARRIS REALTY CO., Realtors, 105 W. Cass St., P. O. Box 585, Tampa, Florida.

## PATENTS

## HAVE PATENTED SHIELD

(stamped metal) to prevent wheels of lawn mowers, garden cultivators, disc cultivators, etc., rolling down and mutilating flowers and sprawling plants. Much needed. Strictly practical. No competition. Want manufacturer; small bonus and royalty preferred.

G. S. AGEE,

Care of St. Helen's Inn, Longview, Wash.

## PATENT ATTORNEYS

INVENTORS—Send sketch or model of your invention for opinion concerning patentable nature and exact cost of applying for Patent. Book, "How to Obtain a Patent," sent free. Gives information on Patent procedure and tells what every inventor should know. Established 25 years. Chand-lee & Chand-lee, 412 Seventh St. N. W., Washington, D. C.

## PATENT ATTORNEYS

PATENTS—Booklet free. Highest references. Best results. Promptness assured. WATSON E. COLEMAN, Patent Lawyer, 724 Ninth St. N. W., Washington, D. C.

PATENTS—TRADEMARKS—COPYRIGHTS Charlotte office convenient to South. PAUL B. EATON, Registered Patent Attorney, 406 Independence Building, Charlotte, N. C., and 903 Grant Place N. W., Washington, D. C.

PATENTS—TRADEMARKS—COPYRIGHTS Write for our free Guide Books and "RECORD OF INVENTION BLANK" before disclosing invention. Send model or sketch and description of your invention for our inspection and instructions free. Terms reasonable. Highest references. VICTOR J. EVANS & CO., 712 Ninth, Washington, D. C.

## INDUSTRIAL SURVEYS

ENGINEERING REPORTS on resources of cities and towns. Recommendations for industrial development made by specialists in locating industries.

TECHNICAL SERVICE COMPANY,  
Woolworth Building New York City

## BRANCH OFFICE SERVICE

HOUSTON, TEXAS.  
Branch Office Service.  
Personal Representation. Mail Forwarding.  
Correspondence Solicited.  
EDWARD L. BLOSSAT,  
P. O. Box 680, Houston, Texas.

Telephone Listing. Mail Forwarding.  
Representation.  
Unusual Facilities Offered for Use of  
Salesmen.  
Assistance in Selecting Men to Travel in  
This Territory.  
MANUFACTURERS AND REPRESENTATIVES' SERVICE BUREAU  
Builders' Building Charlotte, N. C.

## AGENCIES WANTED

AGENCIES—DEALERS.  
Territories for sale of steel windows open in many parts of the United States. Write us for particulars. ALLISON STEEL PRODUCTS COMPANY, Chester, Pa.

## DISTRIBUTORS WANTED

Good, live machinery distributors wanted to handle the complete line of OSGOOD gasoline, steam or electric powered shovels, cranes, draglines and back hoes. Excellent territories open throughout the South and Middle West.

THE OSGOOD COMPANY,  
Marion, Ohio.

## REPRESENTATIVES WANTED

## BLAW-KNOX

## WANTS GRATING DISTRIBUTOR

Are you the man or the firm who can make a success of selling Blaw-Knox Security Steel Grating and Open Flooring in your locality? This grating has five points of primary advantage over others in the market and is extremely easy to sell, as its advantages are immediately apparent. It is extra strong, electroforged in one piece, has positive non-slip features, gives maximum lighting and ventilation and can be 100% effectively galvanized or painted. This new grating is causing a sensation among buyers. The Blaw-Knox Company, well known manufacturers of steel specialties, have a few good territories open for distributors who are in a position to sell engineers, architects, contractors, industrial plants, etc. Preliminary correspondence is invited. Tell us what lines you now handle, the extent of your organization and the territory you cover.

BLAW-KNOX COMPANY,

Pittsburgh, Pa.

## SITUATIONS WANTED

CIVIL ENGINEER and Surveyor (licensed) desires position with land or timber company, Mexico, Central or South America preferred. No. 6844, care Manufacturers Record.

## MANUFACTURERS' OPPORTUNITY.

A producer with executive ability and knowledge of the pressed and blown table glassware business desires connection. Extended acquaintance with the trade and constructive sales and managerial experience.

P. O. BOX 1383,  
PITTSBURGH, PA.

## MEN WANTED

SALESMAN WANTED—Our proposition offers greater earning possibilities to the real salesman than is offered to him in most any other line. A credit and collection service with a bonded recovery obligation.

American Security Credit Company,  
General Offices,  
St. Louis, Mo.

IF YOU ARE OPEN to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited. The undersigned provides a thoroughly organized service, of recognized standards and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements; your identity covered and present position protected. Established seventeen years. Send only name and address for details.

R. W. BIXBY, INC.,  
103 Downtown Bldg., Buffalo, New York.

## TIMBERS AND PLANK

FOR SALE—Oak or Cypress structural and railroad timbers and plank cut to order. Poplar and Gum Squares or dimensions. Inquiries solicited.

UNITED TIMBER & LUMBER CO.,  
Memphis, Tenn.

## CONTRACT WORK WANTED

DEPENDABLE COMPANY, with 45 years' experience, operating well-equipped and extensive plant consisting of Pattern Shop, Foundry, Machine Shop, Forge and Structural Shop, supported by skilled mechanics and capable engineers, wants connection with reliable consulting and contracting Engineers and others who desire a plant to manufacture Machinery and Equipment to meet their requirements. Plant facilities suitable for the manufacture of light or heavy units. Grey Iron and Semi-steel castings up to 40,000 lbs.; Brass and Aluminum up to 1000 lbs. Address No. 6796, care of Manufacturers Record, Baltimore, Md.

## MACHINERY AND SUPPLIES

ICE-MAKING AND REFRIGERATING MACHINERY—New and rebuilt. Our prices on new Waynesboro Refrigerating Equipment and Household Electric Refrigerators very low. Buy direct from the manufacturer. All sizes. Get our prices on your requirements. GEISER MANUFACTURING COMPANY, "Department E," Waynesboro, Pa.

1 Kelley Router.  
No. 7 New-bitten Chain Mortiser.  
American Panel Raiser.  
American Sash Rabbeting Machine.  
American Variety Saw.  
American Jigg Saw.  
Fox Foot Power Motor Knife.  
Planer Mill Hog.  
International Time-clock, suitable for 60 employees.  
Two (2) Watchman's Clocks.  
18x42 Corliss Engine.  
14x30 Timber Sizer.  
These machines are offered at a real bargain; ask for prices.

DILLON SUPPLY COMPANY,  
Raleigh, N. C.



